

ENTITY ACTION FORM - FORM 6

OPERATOR CHUSKA ENERGY COMPANY

OPERATOR ACCT. NO. N 9290

ADDRESS _____

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11496	43-037-31708	BURRO 31I		31	41S	24E	SAN JUAN		7-22-93
WELL 1 COMMENTS: *AWAITING ADD'L INFO. (APD'S & WCR'S)											
A	99999	11497	43-037-31709	JACK 31G	SWNE	31	41S	24E	SAN JUAN		7-22-93
WELL 2 COMMENTS:											
A	99999	11498	43-037-31710	MULE 31M	SWSW	31	41S	24E	SAN JUAN		7-22-93
WELL 3 COMMENTS:											
A	99999	11499	43-037-31711	HERON 35H-A	SENE	35	41S	25E	SAN JUAN		7-22-93
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ADMIN. ANALYST

7-22-93

Title

Date

Phone No. ()

43 037 31709

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
OIL AND GAS INSPECTION RECORD

OPERATOR Chusk Energy LEASE Indian
WELL NO. Jack 31-G API no APD
SEC. 31 T. 41S R. 24E CONTRACTOR Agtec 222
COUNTY S/J FIELD Armeth East

DRILLING/COMPLETION/WORKOVER:

☐ APD ☐ WELL SIGN ☐ HOUSEKEEPING ☐ BOPE
☐ SAFETY ☐ POLL. CONTROL ☐ SURFACE USE ☐ PITS
☐ OPERATIONS ☐ OTHER

SHUT-IN ☐ / TA ☐:

☐ WELL SIGN ☐ HOUSEKEEPING ☐ EQUIPMENT* ☐ SAFETY
☐ OTHER

ABANDONED:

☐ MARKER ☐ HOUSEKEEPING ☐ REHAB. ☐ OTHER

PRODUCTION:

☒ WELL SIGN ☒ HOUSEKEEPING ☒ EQUIPMENT* ☒ FACILITIES*
☒ METERING* ☒ POLL. CONTROL ☒ PITS ☒ DISPOSAL
☒ SECURITY ☒ SAFETY ☒ OTHER

GAS DISPOSITION:

☐ VENTED/FLARED ☐ SOLD ☒ LEASE USE

LEGEND: Y - YES OR SATISFACTORY
N - NO OR UNSATISFACTORY
NA - NOT APPLICABLE

*FACILITIES INSPECTED: Loc & TKS. Sep. P/T Gas Engine

REMARKS: ID 5/92 & completed now Producing

ACTION:

INSPECTOR: MA & H.B.

DATE: 7/30/92

IN36/1

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		2. NAME OF OPERATOR Chuska Energy Company		3. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116	
4. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RECVL. <input type="checkbox"/> Other _____		5. ADDRESS OF OPERATOR 3315 Bloomfield Hwy. Farmington, NM 87401 505-326-5525		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal	
7. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2170' FNL, 1390' FEL At top prod. interval reported below At total depth Same		8. DATE ISSUED SEP 10 1993		7. UNIT AGREEMENT NAME	
9. DATE SPUDDED 5-20-92		10. DATE T.D. REACHED 5-29-92		8. FARM OR LEASE NAME Jack	
11. DATE COMPL. (Ready to prod.) 6-28-92 (Plg & A.M.)		12. ELEVATIONS (OP. SER. ST. CR. ETC.) GL 4924' KB 4937'		9. WELL NO. 31G	
13. TOTAL DEPTH, MD & TVD 5933' MD&TVD		14. PLUG BACK T.D. MD & TVD 5907' MD&TVD		10. FIELD AND POOL OR WILDCAT Wildcat	
15. IF MULTIPLE COMPL. HOW MANY 1		16. INTERVALS DRILLED BY ROTARY TOOLS YES		11. SEC. T. L. M. OR BLOCK AND SURVEY OR AREA S31-T41S-R24E	
17. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 5735'-37, 5742-59 MD&TVD - Desert Creek 5817-29' MD&TVD Desert Creek - Isolated W/CIBP (non producing)		18. WAS DIRECTIONAL SURVEY MADE YES		12. COUNTY San Juan	
19. TYPE ELECTRIC AND OTHER LOGS RUN DLL-MSFL-SP-GR-CAL/LDT-CNL-FDC-GR/BHC-CAL/CBL-CCLGR		20. WAS WELL CORED YES <input type="checkbox"/> NO <input type="checkbox"/> (See remarks) DRILL STEM TEST YES <input type="checkbox"/> NO <input type="checkbox"/> (See remarks)		13. STATE Utah	
21. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
8 5/8 J-55	24.0	529	12 1/4	B70 sx CL 'B' 2% CaCl ₂ & 1/4#/sx cellof	1ake
5 1/2 J-55	15.5	5927	7 7/8	ST1: Ld:452 sx CL 'B' TL 150 sx 'G'	
DVT	13506'			ST2: Ld:837 sx CL 'B' 65/35 Poz TL: 100	
22. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT	SCREEN (MD)	SIZE
23. TUBING RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT	SCREEN (MD)	SIZE
24. PERFORATION RECORD (Interval, size and number)					
5735-37, 5742-59, .46" @ 4 SPF (76 shots)					
5817-29, .46" @ 4 SPF (48 shots)					
25. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)					
AMOUNT AND KIND OF MATERIAL USED					
5735-59 1900 gal 28%HCL 7600 gal 15% gelled HCL					
5817-29 1200 gal 28% HCL 4800 gal, 15% gelled HCL					
26. PRODUCTION					
DATE FIRST PRODUCTION 6-18-92					
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing					
WELL STATUS (Producing or shut-in) Producing					
DATE OF TEST 6-18-92	HOURS TESTED 6 hrs	CHOKED SIZE None	PROD. N. FOR TEST PERIOD 106.88	GAS—MCF. 23.75	WATER—GAL. 0
FLOW, TUBING PRESS. 25-65	CASING PRESSURE 10 psi	CALCULATED 24-HOUR RATE 428	OIL—GAL. 95 MCFD	GAS—MCF. 0	WATER—GAL. 43 API
27. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented					
28. LIST OF ATTACHMENTS Mike Dwinell Consultant					
29. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <u>[Signature]</u> TITLE <u>Operations Manager</u> DATE <u>5-26-93</u>					

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.

Formation	Top	Bottom	Description, contents, etc.
SIDEWALL CORES			
	Desert Creek	5791	*10 Plugs
	5748		
	5751		
	5753		
	5755		
	5757		
	5765		
	5773		
	5775		
	5790		
	5791		
Desert Creek	5802	5850	*9 Plugs
	5803		
	5819		
	5820		
	5821		
	5822		
	5826		
	5827		
	5850		

38.

GEOLOGIC MARKERS

Name	Top	
	Meas. Depth	True Vert. Depth
Navajo	781'	781'
Chinle	1606'	1606'
Dechelly	2745'	2745'
Cutler	2955'	2955'
Hermosa	4695'	4695'
Upper Ismay	5538'	5538'
Hovenweep Sh	5647'	5647'
Lower Ismay	5656'	5656'
Gothic Shale	5683'	5683'
Chimney RockSH	5874'	5874'
Akah	5887'	5887'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401 (505) 326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2170' FNL, 1390' FEL
S31-T41S-R24E

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

JACK 31 G

9. API Well No.

43-037-70067-91

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing

☒ Other SURFACE CASING / spud

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU AZTEC WELL SERVICE RIG #222 AND SPUD 12 1/4" HOLE, 6:00 PM, 5-20-92. DRILL 12 1/4" HOLE TO 530' AND RAN 12 JOINTS 8 5/8", 24.0, J-55 STC CASING. LAND AT 529.39' KB. CEMENTED WITH 370 SX CLASS "B" CEMENT + 2% CaCl₂ + 1/4#/SX CELLOFLAKE (436.6 ft³). PLUG DOWN AT 12:45 AM, 5-21-92. CIRCULATE 31 BBLS CEMENT SLURRY TO SURFACE. RE-NOTIFIED WAYNE TOWNSEND, BLM, OF ESTIMATED CEMENT SCHEDULED AT 3:00 PM, 5-21-92.

SEP 10 1993

RECEIVED
BLM
92 JUN -8 PM 1:27
019 FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct

Signed

B. A. Whelan

Title

OPERATIONS MANAGER

Date

6-4-92

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

ACCEPTED FOR RECORD

JUN 12 1992

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

FARMINGTON RESOURCE AREA

BY

SM

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
 Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Hwy. Farmington, NM 87401		8. Unit or Communitization Agreement _____
4. Telephone Number 505-326-5525		9. Well Name and Number Jack 31G
5. Location of Well Footage : 2170' FNL, 1390' FEL QQ, Sec. T., R., M. : S31-T41S-R24E		10. API Well Number 43-037-70067 31709
County : San Juan State : UTAH		11. Field and Pool, or Wildcat Wildcat

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div> <p>Approximate Date Work Will Start _____</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other <u>Production Casing</u> </div> <div style="width: 48%;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div> <p>Date of Work Completion _____</p> <p>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</p>

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Larry A. Chambers, Chuska Energy Company, contacted Mark Kelley, BLM, at 9:00 AM on 6-02-92, of intent to run and cement 5 1/2, K-55, 15.5 production casing from 5933' to surface with DVT @ 3500'. Estimated time to pump cement is at 10:00 AM, 6-02-93. Rig is Aztec #222 with Halliburton as cement contractor.

14. I hereby certify that the foregoing is true and correct

Name & Signature Barry A. Wieland

Title Operations Manager Date 5-26-93

(State Use Only)

SEP 10 1993

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number

NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use APPLICATION FOR PERMIT for such proposals

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other (specify)

9. Well Name and Number

Jack 31G

2. Name of Operator

Chuska Energy Company

10. API Well Number

43-037-70067

3. Address of Operator

3315 Bloomfield Hwy. Farmington NM 87401

4. Telephone Number

505-326-5525

11. Field and Pool, or Wildcat

Wildcat

5. Location of Well

 Footage : 2170' FNL, 1390' FEL
 QQ, Sec. T., R., M. : S31-T41S-R24E

County : San Juan

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**NOTICE OF INTENT**
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Production Casing</u> | |

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled to 5929'. Logged and ran 146 joints 5 1/2", 15.5, J-55, LTC casing, float shoe, float collar, DV tool, and landed at 5927' KB. DV tool at 3506'. Cemented as follows:

Stage #1: Lead w/452 sx 65/35 Poz + 6% Gel + 1/4#/sx Flocele., (820 ft3, 1.814 yield). Tail w/150 sx 'G' cement + 10% Microbond + .5% halide 334 + .5% CFR3, (192 ft3, 1.28 yield). Circulated 1 bbl cement slurry to surface.

Stage #2: Lead w/837 sx 65/35 Poz + 6% Gel + 1/4#/sx Flocele, (1518 ft3, 1.814 yield). tail w/100 sx Class 'B' neat cement, (118 ft3, 1.18 yield). Plug down at 1750 hours, 6-03-92. Circulate 113 bbl cement slurry to surface.

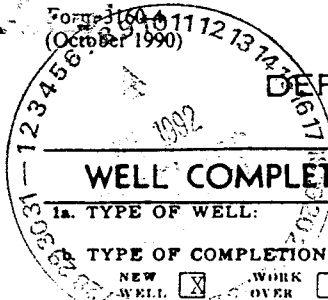
Release rig at 2100 Hours, 6-03-92.

14. I hereby certify that the foregoing is true and correct

Name & Signature Barry A. WielandTitle Operations Manager Date 5-26-93

(State Use Only)

SEP 10 1993



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See 2 for In-
structions on
reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____
2. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS AND TELEPHONE NO.

3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2170' FNL & 1390' FEL

At top prod. interval reported below

At total depth Same

14. PERMIT NO. DATE ISSUED

43-037-31709

SEP 10 1993

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED

5-20-92

16. DATE T.D. REACHED

5-29-92

17. DATE COMPL. (Ready to prod.)

6-18-92

18. ELEVATIONS (OF RKB, RT, GR, ETC.)*

GL 4924' KB 4937'

19. ELEV. CASINGHEAD

GL 4924'

20. TOTAL DEPTH, MD & TVD

5933' MD&TVD

21. PLUG. BACK T.D., MD & TVD

5907' MD&TVD

22. IF MULTIPLE COMPL., HOW MANY*

1

23. INTERVALS DRILLED BY

Rotary

24. ROTARY TOOLS

Yes

25. CABLE TOOLS

Yes

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5735-37, 5742-59 MD&TVD -Desert Creek

5817-29' MD&TVD Desert Creek - Isolated w/CIBP (Non producing)

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-MSFL-SP-GR-CAL/. LDT-CNL-FDC-GR/BHC-CAL/CBL-CCL-GR

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HO. SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8 J-55	24.0	529	4 1/2	370 sx CL'B' & 2% CaCl2 & 1/4% HCL	475 sx Celloflake
5 1/2 J-55	15.5	5927	4 1/2	St1: Ld:452 sx CL'B' TL: 150 sx 'G'	
DVT @	3506'			St2: Ld: 837 sx CL 'B' 65/35 Poz TL: 100 sx CL 'G' Neat	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

5735-37, 5742-59, .46" @ 4SPF (76 shots)

5817-29, .46" @ 4SPF (48 shots)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5735-59	1900 gal 28% HCL, 7600 gal, 15% gelled HCL
5817-29	1200 gal 28% HCL, 4800 gal, 15% gelled HCL

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6-18-92		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-18-92	6hrs	None	→	106.88	23.75	0	222
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
25-65	10psi	→	428	95 MCFD	0	43 API	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

Mike Dringhl = Consultant

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Ray H. Wheeler

TITLE

Operations Manager

DATE

6-30-92

*(See Instructions and Spaces for Additional Data on Reverse Side)

ADMINISTRATION RESOURCE AREA

BY

SM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

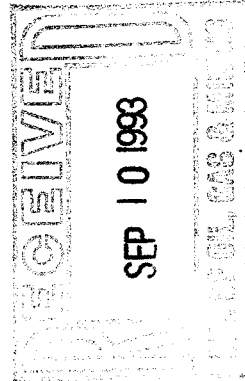
37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					MEAS. DEPTH	TRUE VERT. DEPTH	
SIDEWALL CORES							
	Desert Creek	5748	5791	*10 plugs	Navajo	781'	781'
		5751			Chinle	1606'	1606'
		5753			DeChelly	2745'	2745'
		5755			Cutler	2955'	2955'
		5757			Hermosa	4695'	4695'
		5765			Upper Ismay	5538'	5538'
		5773			Hovenweep Sh	5647'	5647'
		5775			Lower Ismay	5656'	5656'
		5790			Gothic Shale	5683'	5683'
5791		Chimney Rock Sh			5874'	5874'	
Desert Creek	5802	5850	*9 plugs	Akah	5887'	5887'	
	5803						
	5819						
	5820						
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5850							

RECEIVED

SEP 10 1993

U.S. GEOLOGICAL SURVEY



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number

NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other (specify)

9. Well Name and Number

Jack 31G

2. Name of Operator

Chuska Energy Company

10. API Well Number

43-037-70067 31709

3. Address of Operator

3315 Bloomfield Hwy. Farmington, NM 87401

4. Telephone Number

505-326-5525

11. Field and Pool, or Wildcat

Wildcat

5. Location of Well

Footage : 2170' FNL, 1390' FEL

QQ, Sec. T., R., M. : S31-T41S-R24E

County : San Juan

State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT (Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>First Sale of Gas</u> | |

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

First Sale of gas occurred on July 6, 1992 @ 4:10 PM.

SEP 10 1993

14. I hereby certify that the foregoing is true and correct

Name & Signature Barry A. Wieland

(State Use Only)

Title Operations Manager Date 5-26-93

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NOG 8702-1116
2. Name of Operator Chuska Energy Company	6. If Indian, Allottee or Tribe Name Navajo Tribal
3. Address and Telephone No. 3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2170' FNL 1390' FEL Section 31-T41S-R24E	8. Well Name and No. Jack 31G
	9. API Well No. 31709 43-037-70067-91
	10. Field and Pool, or Exploratory Area Wildcat
	11. County or Parish, State San Juan County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Completion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other First Sale of Gas
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

First sale of gas occurred on July 6, 1992 @ 4:10 pm.

RECEIVED
BLM
92 JUL -7 AM 10:00
019 FARMINGTON, N.M.

SEP 10 1993

14. I hereby certify that the foregoing is true and correct.

Signed Ray H. Wheeler Title OPERATIONS MANAGER Date 07 July 92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

OPERATOR

FARMINGTON RESOURCE AREA
BY SW

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Hwy. Farmington, NM 87401		8. Unit or Communitization Agreement
4. Telephone Number 505-326-5525		9. Well Name and Number JACK 31G
5. Location of Well Footage : 2170' GNL, 1390' FEL QQ, Sec. T., R., M. : S31-T41S-R24E		10. API Well Number 43-037-70067-3789
County : San Juan State : UTAH		11. Field and Pool, or Wildcat Wildcat

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other	First Sale Of Oil
<input type="checkbox"/> Other			
Approximate Date Work Will Start _____		Date of Work Completion _____	
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.			

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

First sale of oil occurred on 6-20-92.

SEP 10 1993

14. I hereby certify that the foregoing is true and correct

Name & Signature Barry A. Wieland  Title Operations Manager Date 5-26-93
(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Highway, Farmington, NM 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2170' FNL, 1390' FEL
S31-T41S-R24E

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

JACK 31-G

9. API Well No.

43-037-~~70067-91~~ 31709

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Patching Repair
☐ Altering Casing
☒ Other FIRST SALE OF OIL

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

FIRST SALE OF OIL OCCURRED ON 6-20-92.

SEP 10 1993

RECEIVED
BLM
92 JUN 30 PM 3:22
019 FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct

Signed

Title OPERATIONS MANAGER

Date 6-24-92

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

ACCEPTED FOR RECORD
Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

FARMINGTON RECOURSE FILE
BY Sm

OPERATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
CHUSKA ENERGY COMPANY

3. Address and Telephone No.
3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401 (505) 326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2170' FNL, 1390' FEL
S31-T41S-R24E

5. Lease Designation and Serial No.

NOG 8702 1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

JACK 31G

9. API Well No.

43-037-70067-91 31709

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other PRODUCTION CASING

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

DRILLED TO 5929'. LOGGED AND RAN 146 JOINTS 5 1/2", 15.50, J-55, LTC CASING, FLOAT SHOE, FLOAT COLLAR, DV TOOL, AND LANDED AT 5927' KB. DV TOOL AT 3506'. CEMENTED AS FOLLOWS:

STAGE 1: LEAD W/452 SX 65/35 POZ + 6% GEL + 1/4#/SX FLOCELE, (820 ft3, 1.814 YIELD). TAIL W/150 SX "G" CEMENT + 10% MICROBOND + .5% HALIDE 334 + .5% CFR3, (192 ft3, 1.28 YIELD). CIRCULATED 1 BBL CEMENT SLURRY TO SURFACE.

STAGE 2: LEAD W/837 SX 65/35 POZ + 6% GEL + 1/4#/SX FLOCELE, (1518 ft3, 1.814 YIELD). TAIL W/100 SX CLASS "B" NEAT CEMENT, (118 ft3, 1.18 YIELD). PLUG DOWN AT 1750 HOURS, 6-3-92. CIRCULATE 113 BBL CEMENT SLURRY TO SURFACE.

RELEASE RIG AT 2100 HOURS, 6-3-92.

SEP 10 1993

RECEIVED
FARMINGTON, N.M.
JUN 10 1992
8 PM 1:27

14. I hereby certify that the foregoing is true and correct

Signed

Bay H. Wierla

Title

OPERATIONS MANAGER

Date

6-4-92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

FARMINGTON RESOURCE AREA

BY

SM

OPERATOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NOG 8702 1116
2. Name of Operator CHUSKA ENERGY COMPANY	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401 (505) 326-5525	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2170' FNL, 1390' FEL S31-T41S-R24E	8. Well Name and No. JACK 31 G
	9. API Well No. 43-037-76067-91
	10. Field and Pool, or Exploratory Area WILDCAT
	11. County or Parish, State SAN JUAN, UTAH

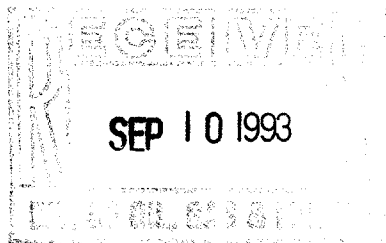
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>PRODUCTION CASING</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on "Well Completion or Recompletion Report and Log form.")

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

LARRY CHAMBERS, CHUSKA ENERGY COMPANY, CONTACTED MARK KELLEY, BLM, AT 9:00 AM ON 6-2-92, OF INTENT TO RUN AND CEMENT 5 1/2", K-55, 15.50 PRODUCTION CASING FROM 5933' TO SURFACE WITH DVT @ 3500'. ESTIMATED TIME TO PUMP CEMENT IS AT 10:00 AM, 6-2-92. RIG IS AZTEC #222 WITH HALLIBURTON AS CEMENT CONTRACTOR.



RECEIVED
BLM
92 JUN -8 PM 1:26
019 FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct

Signed Ray A. Weelans Title OPERATIONS MANAGER Date 6-4-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date ACCEPTED FOR RECORD

Conditions of approval, if any:

JUN 12 1992

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

FARMINGTON RESOURCE AREA
BY Shm

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Hwy. Farmington, NM 87401		8. Unit or Communitization Agreement 43-037-31709
4. Telephone Number 505-326-5525		9. Well Name and Number Jack 31G
5. Location of Well Footage : 2170' FNL, 1390' FEL QQ, Sec. T., R., M. : S31-T41S-R24E		10. API Well Number 43-037-7227-31709
		11. Field and Pool, or Wildcat Wildcat
County : San Juan State : UTAH		

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Surface Casing / Spud</u>	
<input type="checkbox"/> Other _____			
Approximate Date Work Will Start _____		Date of Work Completion _____	
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.			

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU Aztec Well Service Rig #222 and spud 12 1/4" hole, 6:00 PM, 5-20-92. Drill 12 1/4" hole to 350' and ran 12 joints 8 5/8", 24.0, J-55 STC casing. Land at 529.39' KB. Cemented with 370 sx Class 'B' cement + 2% CaCl₂ + 1/4#sx Celloflake (436.6 ft³). Plug down at 12:45 AM, 5-21-92. Circulate 31 bbls cement slurry to surface. Re-notified Wayne Townsend, BLM, of estimated cement scheduled at 3:00 PM, 5-21-92.

14. I hereby certify that the foregoing is true and correct

Name & Signature Barry A. Wieland Title Operations Manager Date 5-26-93
(State Use Only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____		6. Lease Designation and Serial Number NOG 8702-1116
2. Name of Operator Chuska Energy Company		7. Indian Allottee or Tribe Name Navajo Tribal
3. Address of Operator 3315 Bloomfield Hwy. Farmington, NM 87401		8. Unit or Communitization Agreement 43-537-31709
4. Telephone Number 505-326-5525		9. Well Name and Number Jack 31G
5. Location of Well Footage : 2170' FNL, 1390' FEL QQ, Sec. T., R., M. : S31-T41S-R24E		10. API Well Number 43-037-70067 31709
County : San Juan State : UTAH		11. Field and Pool, or Wildcat Wildcat

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other <u>Spud</u>	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate Date Work Will Start _____		Date of Work Completion _____	
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.			

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Aztec Rig #222 TO Spud 12 1/4" hole @ 6:00 PM, 5-20-92. Larry A. Chambers, Chuska Energy Company, contacted Wayne Townsend, of intent at 7:50 am, 5-20-92 for verbal approval.

14. I hereby certify that the foregoing is true and correct

Name & Signature Barry A. Wieland

Title Operations Manager

Date 5-26-93

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NOG 8702 1116
2. Name of Operator CHUSKA ENERGY COMPANY	6. If Indian, Allottee or Tribe Name NAVAJO TRIBAL
3. Address and Telephone No. 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401	7. If Unit or CA, Agreement Designation N/A
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2170' FNL 1390' FEL S31-T41S-R24E	8. Well Name and No. JACK 31 G
	9. API Well No. 31709
	10. Field and Pool, or Exploratory Area WILDCAT
	11. County or Parish, State SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other Spud
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on "Well Completion or Recompletion Report and Log form.")

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

AZTEC RIG #222 TO SPUD 12 1/4" HOLE @ 6:00 PM, 5-20-92. LARRY A. CHAMBERS, CHUSKA ENERGY COMPANY, CONTACTED WAYNE TOWNSEND, BLM, OF INTENT AT 7:50 AM, 5-20-92 FOR VERBAL APPROVAL.

SEP 10 1993

RECEIVED
BLM
92 MAY 28 AM 7:44
019 FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title OPERATIONS MANAGER

Date 5-20-92

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any: _____

ACCEPTED FOR RECORD

Date

JUN 12 1992

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

BY

SMW

OPERATOR

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				5. Lease Designation and Serial No. NOG 8702-1116	
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>				6. If Indian, Allottee or Tribe Name Navajo Tribal	
1b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>				7. Unit Agreement Name	
2. Name of Operator Chuska Energy Company				3. Farm or Lease Name Jack	
3. Address of Operator 3315 Bloomfield Hwy, Farmington, NM 87401 505-326-5525				8. Well No. 31G	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 2170' FNL, 1390' FEL <i>SW NE</i> At proposed prod. zone Same				10. Field and Pool, or Wildcat Wildcat	
11. Distance in miles and direction from nearest town or post office* Appx 7 miles from Montezuma Creek, Utah				12. County or Partian 13. State San Juan Utah	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drg. line, if any) 1420'		16. No. of acres in lease 49,997		17. No. of acres assigned to this well	
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. appx 600'		19. Proposed depth 6037'		20. Rotary or cable tool Rotary	
21. Elevations (Show whether DF, RT, GR, etc.) 4,924' GR/ 4,937' KB				22. Approx. date work will start* January 92'	
PROPOSED CASING AND CEMENTING PROGRAM					
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement	
12 1/4"	K-55 8 5/8"	24ppf	500'	371 sx 'G' + 2% CaCl2	
7 7/8"	K-55 5 1/2"	18.5ppf	5940'	820 sx 'G' + 65/35 Poz & 6%GEL	

Refer to attached 10-point drilling plan etc..

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signature: *[Signature]* Title: Operations Manager

Date: 5-26-93

(This space for internal or State office use)

APT NO. 43-037-31709

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

(3/89)

*See Instructions On Reverse Side

SEP 10 1993

BLM Approved
3-9-92
R649-3-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS AND TELEPHONE NO.

3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

2170' FNL, 1390' FEL

At proposed prod. zone

SAME

JWNE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

appx 7 miles from Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. appx 1420'
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

49,997

17. NO. OF ACRES ASSIGNED
TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. appx 600'

19. PROPOSED DEPTH

6037'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4,924' GR/ 4,937' KB

This action is subject to technical and
procedural review pursuant to 43 CFR 3185.3
and appeal PROPOSED CASES AND CEMENTING PROGRAM

22. APPROX. DATE WORK WILL START*

January '92

23.

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SUBJECT TO QUANTITY OF CEMENT ATTACHED GENERAL REQUIREMENTS:
12 1/4"	K-55, 8 5/8"	24ppf	500'	371' sx 'G' + 2% CaCl ₂
7 7/8"	K-55, 5 1/2"	18.5ppf	5940'	320' sx 'G' + 65:35 Poz & 6% Gel

REFER TO ATTACHED 10-POINT DRILLING PLAN ETC.

CONFIDENTIAL

RECEIVED
BLM

SEP 17 PM 3:20

SEP 10 1993

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

DATE

(This space for Federal or State office use)

RU49-3-3

APPROVED
AS AMENDED

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

43-037-31709

OPERATOR

AREA MANAGER

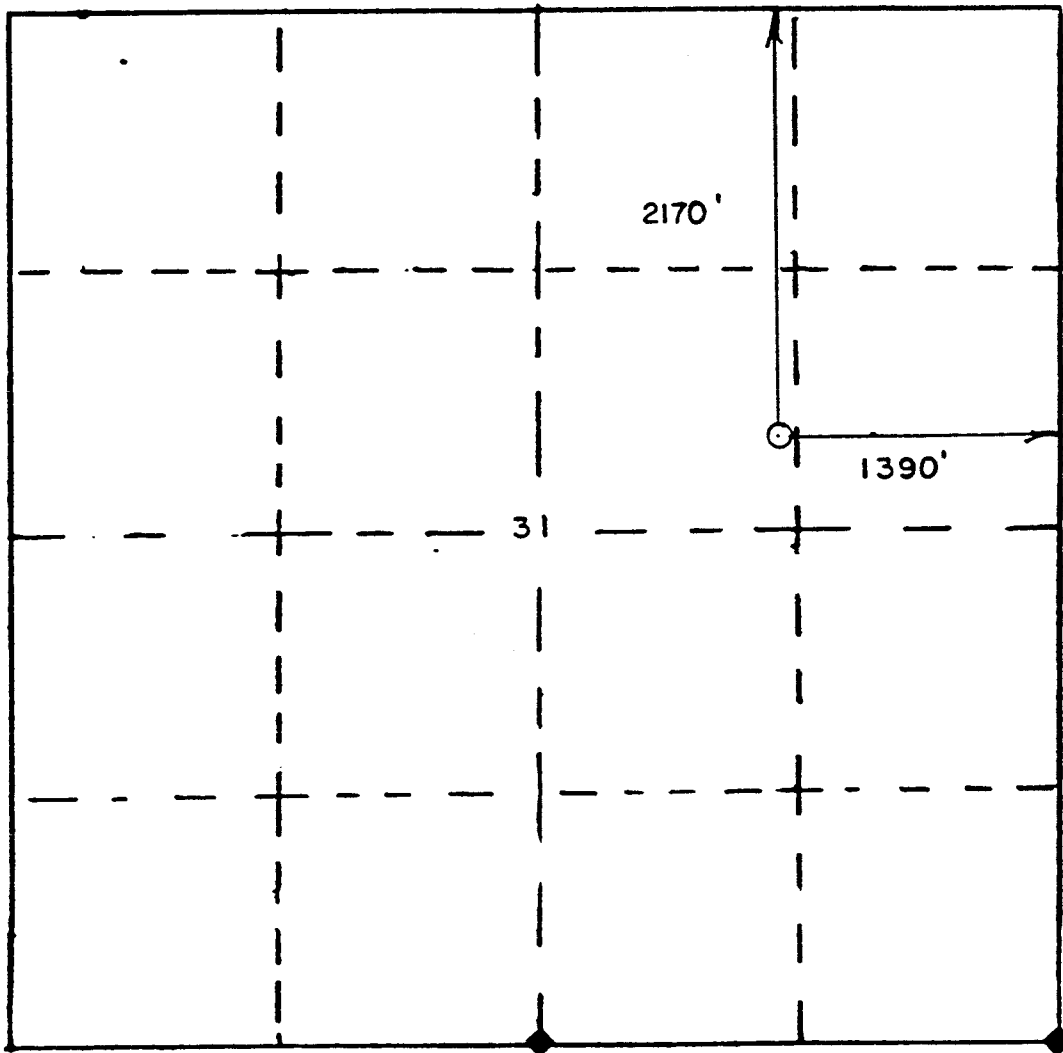
APPROVED BY

TITLE

DATE

*See Instructions On Reverse Side

WELL LOCATION PLAT



North
1" = 1000'

◆ brass cap

● stone

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Jack 31 - G

2170'FNL & 1390'FEL

Section 31, T.41 S., R.24 E., SLM

San Juan County, UT

4924' ground elevation

State plane coordinates from seismic control:

X = 2,635,585 Y = 194,973

sp. 545 line 900-3

019 FARMINGTON, N.M.

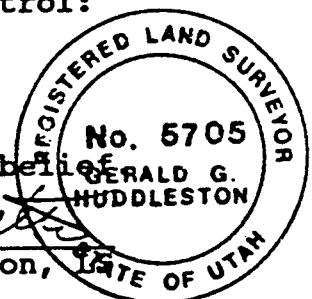
91 DEC 17 PM 3:28

RECEIVED
BLM

The above is true and correct to my knowledge and belief

11 November 1991

Gerald G. Huddleston
Gerald G. Huddleston,



Jack 31 - G

N 69 ° W

proposed
access &
pipe line

North
1"=50'

laydown

10

cl

85

line
900-3

173

F16'

F10¹

b

C 17

100'

30'

545

115

b⁷

reserve
pit

100

C20'

30'

150'

4924

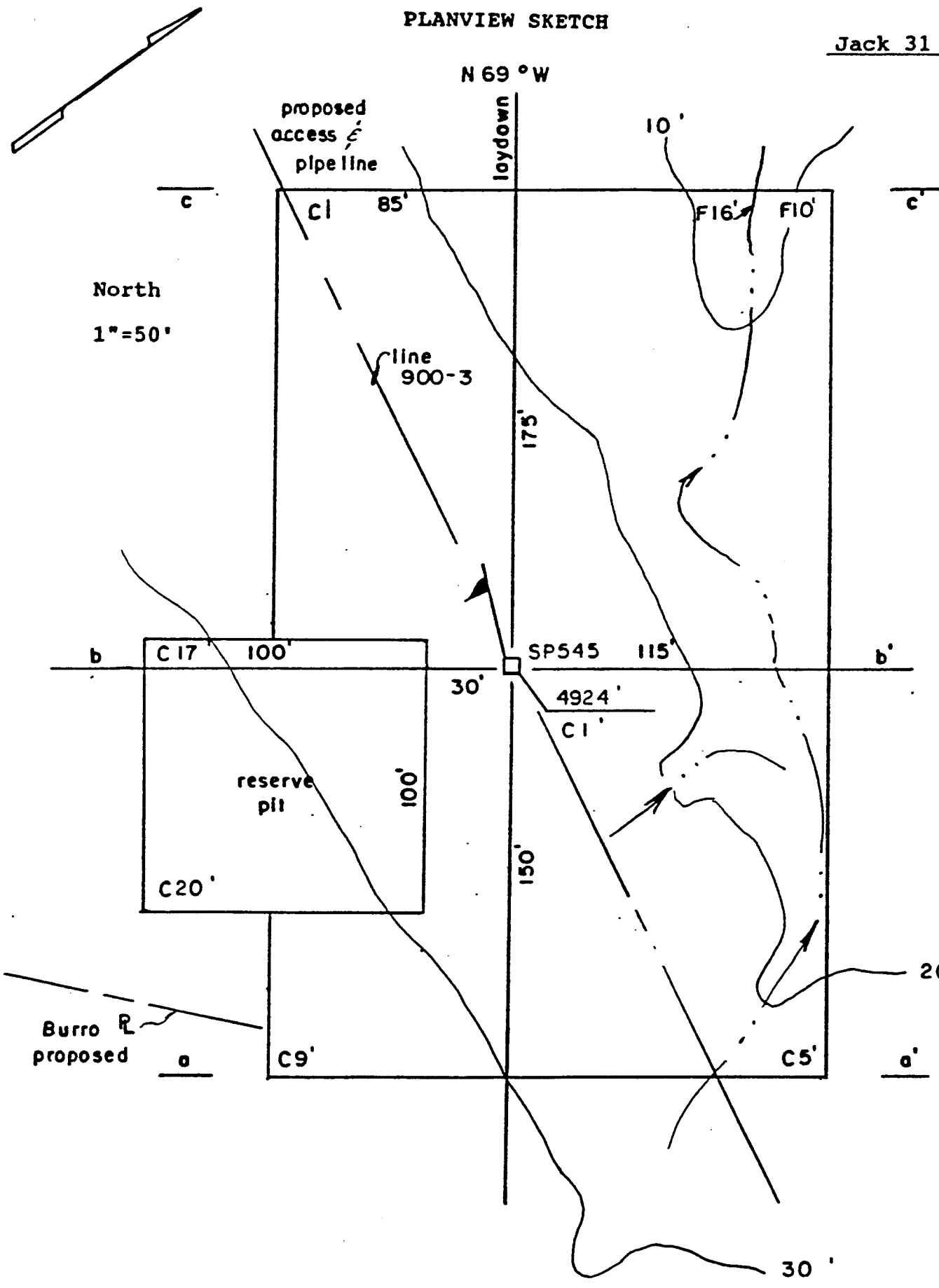
C I

Burro R.
proposed

C9'

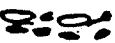
20

30

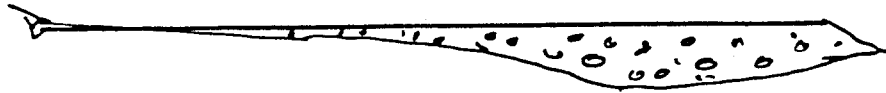


CROSS SECTION

Jack 31 - G

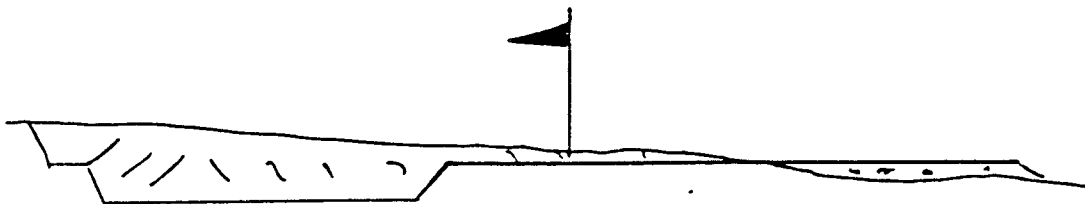
Cut /////
Fill 

1"=50' vert. & horz.



c

c'



b

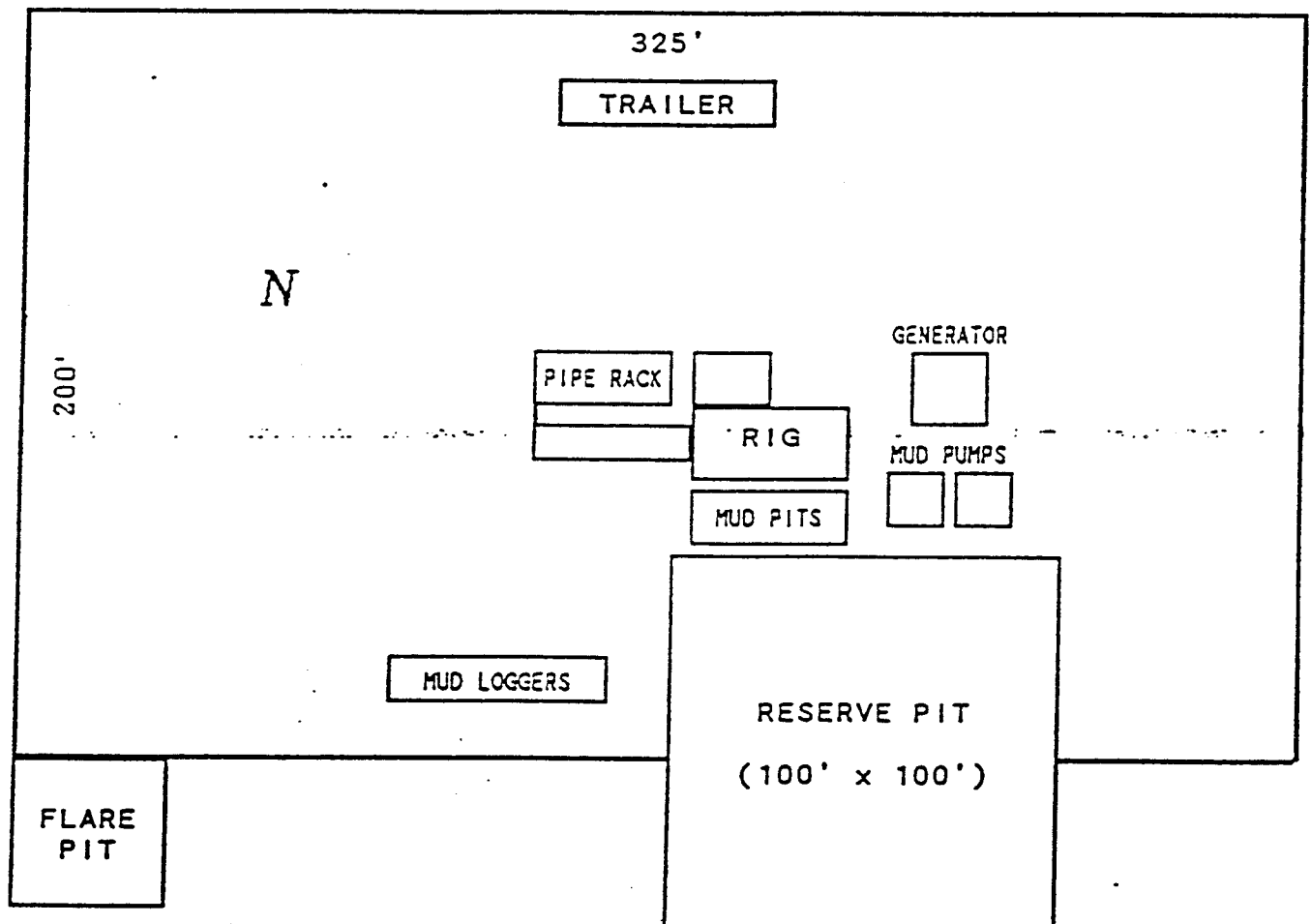
b'



a

a'

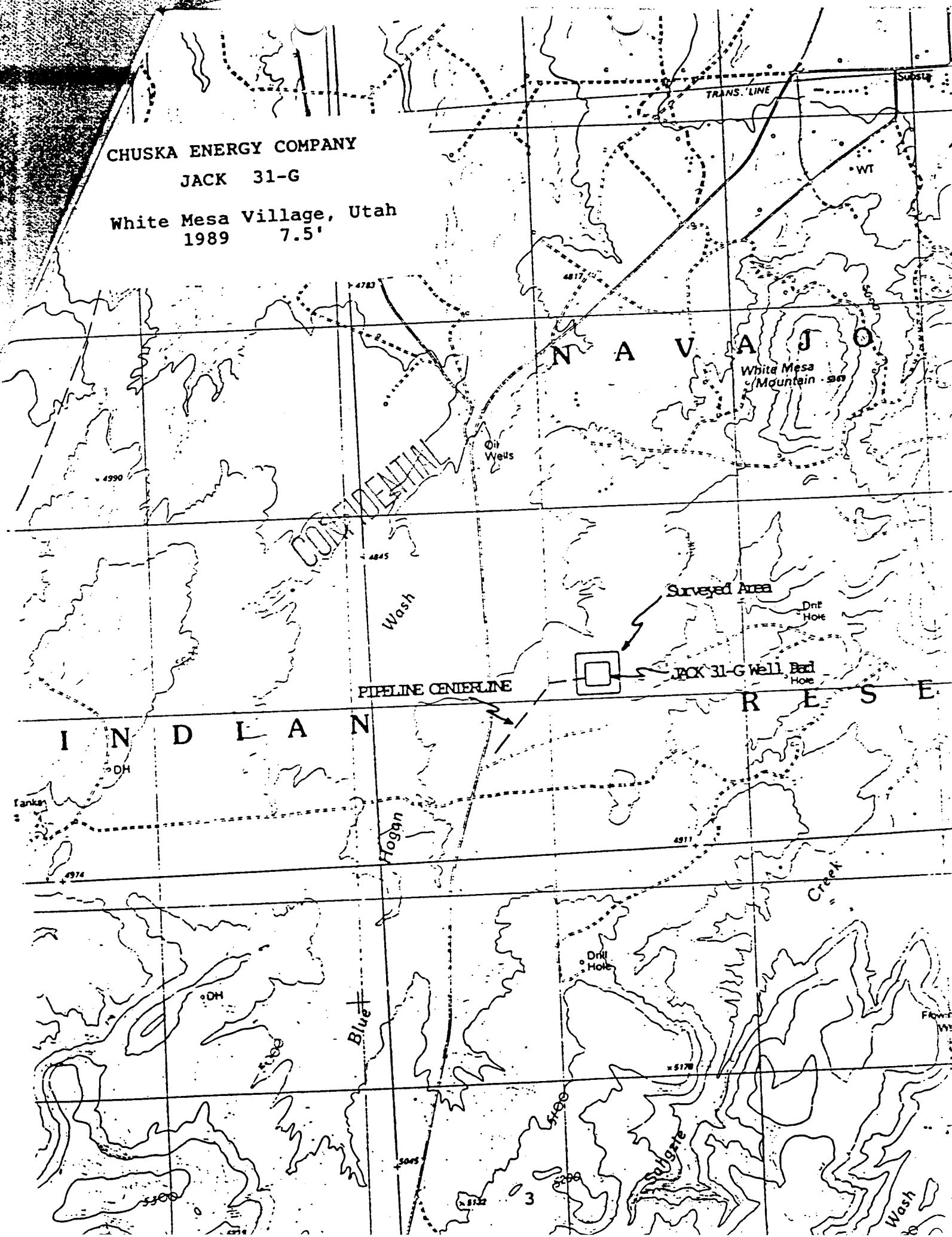
Jack 31-G
Section 31, T41S-R24E
2170' FNL 1390' FEL
San Juan County, Utah



CHUSKA ENERGY COMPANY

JACK 31-G

White Mesa Village, Utah
1989 7.5'



CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Jack 31-G

Section 31, Township 41 South, Range 24 East
2170' FNL 1390' FEL
San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4,924' GR/ 4,937' KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.
805'	Navajo	+4132'
1645'	Chinle	+3292'
2733'	DeChelly	+2204'
2978'	Organ Rock	+1959'
3680'	Cedar Mesa	+1257'
4683'	Hermosa	+254'
5559'	Upper Ismay	-622'
5673'	Lower Ismay	-736' Secondary
5727'	Desert Crk	-790' Primary
5900'	Akah	-963'
6037'	Total Depth	-1100'

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5,880'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

371 sx Class 'G' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft3/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 426 ft³.

SECOND STAGE

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 616 ft³.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be January '92.

DETAILED DRILLING PROGRAM

DATE: December 11, 1991

WELL NAME: Jack WELL NO.: 31G

LOCATION: Section 31, T41S, R24E
2170' FNL, 1390' FEL
San Juan County, Utah

ELEVATION: 4,924' GR / 4,937' KB

TOTAL DEPTH: 6037' KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 5727'
Secondary Target is lower Ismay @ 5673'

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to +/- 515'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, ST&C casing to TD. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 #/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
5. W.O.C. a minimum of 4 hours prior to nipping up for BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2000 psig. Pressure test casing to 1500 psig for 30 min.
7. Drill out surface casing with 7/8" bit. Drill 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 degree @ TD, with maximum allowable rate of change to be 1 degree per 100'.

8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per well site geologist's recommendation.
9. If the well is determined to be productive run 5 1/2" casing to TD., as per casing program in 10 Point Drilling Plan. Set stage cementing collar at +/- 3,500 ft. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-Point Drilling Plan.
10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM, and Navajo Tribal stipulations.

EXHIBIT "A"
BLOWOUT PREVENTER

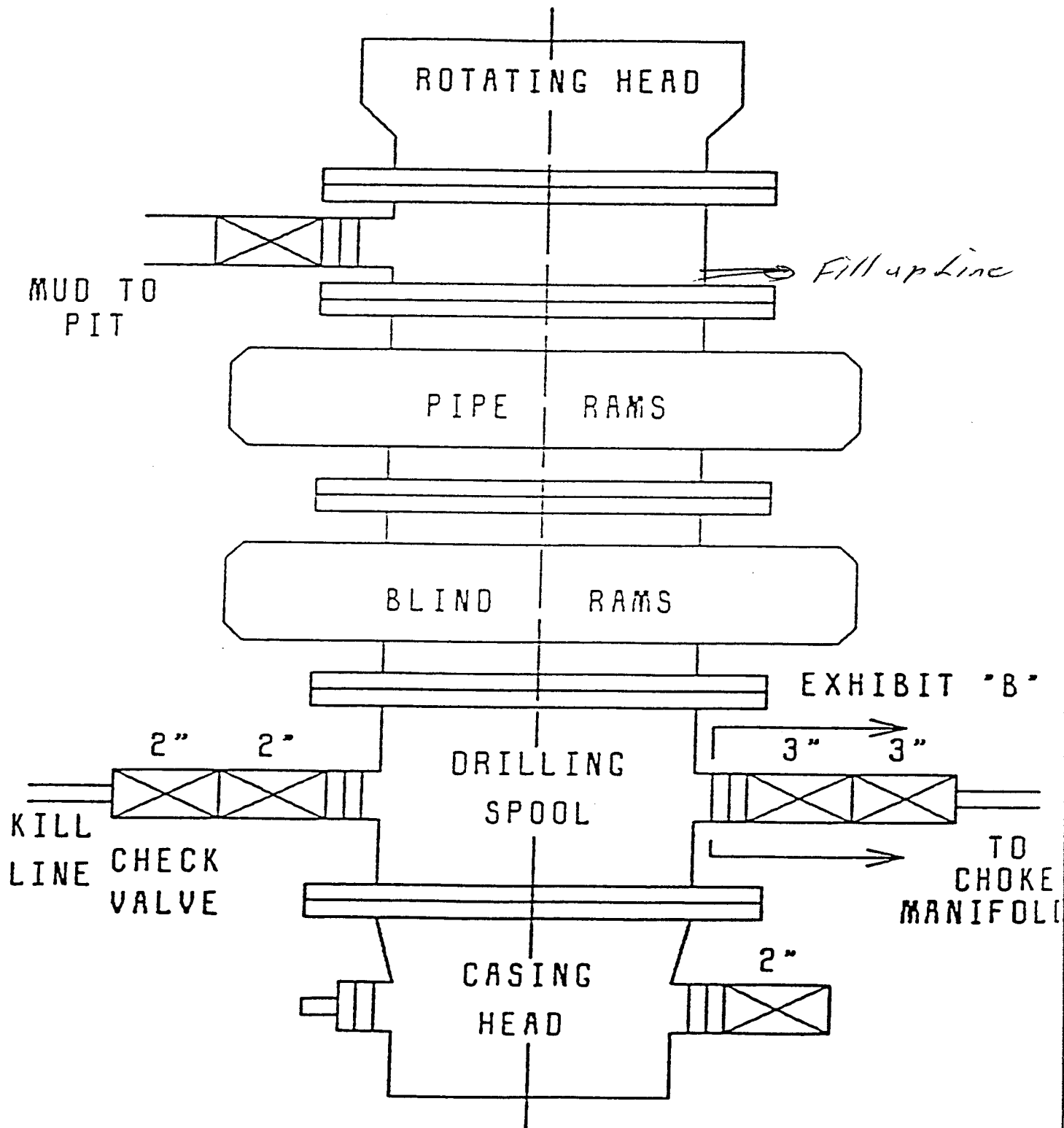
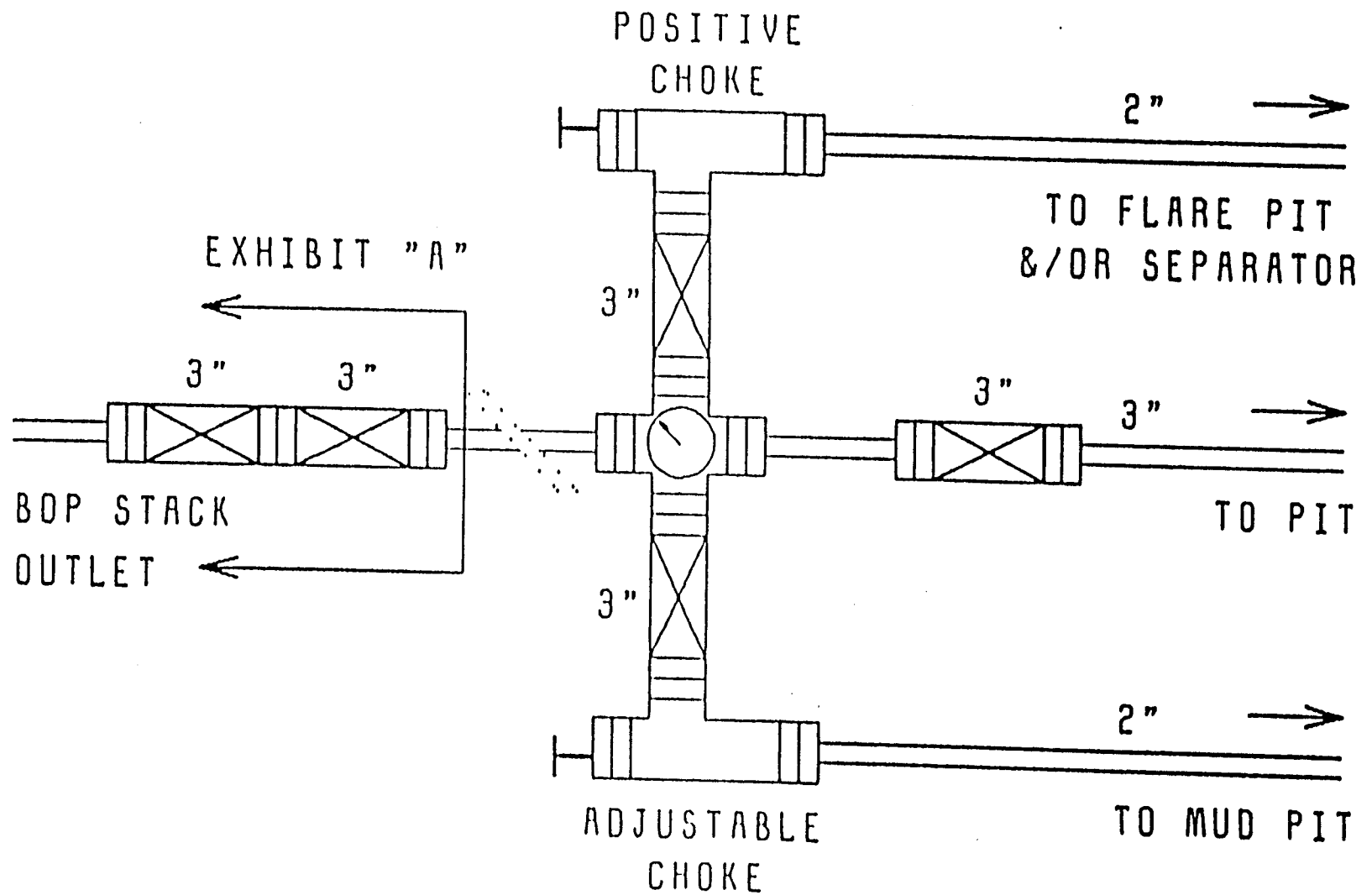


EXHIBIT "B"
CHOKE MANIFOLD



Jack 31 G
Section 31, T41S, R24E
2170' FNL, 1390 FEL
San Juan County, Utah

GENERAL COMPLETION PROCEDURE:

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT:

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and BIA requirements.

Jack 31 G
Section 31, T41S, R24E
2170' FNL, 1390 FEL
San Juan County, Utah

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed to Montezuma Creek. Existing roads will be maintained, as needed, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Owing to the well's proximity to an existing road, no new road will be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIAL

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

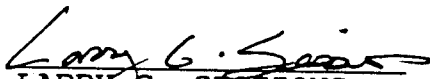
After drilling operations are completed, the location and surrounding area will be cleared of all remaining debris and materials not required for production. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. The existing reserve pit will be used. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NM 87401
LARRY G. SESSIONS

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.


LARRY G. SESSIONS
OPERATIONS MANAGER



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LAPLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401



IN REPLY REFER TO:
3162.3-1 (019)

Chuska Energy Company
#31-G Jack
NOG-8702-1116
SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T. 41 S., R. 24 E.
San Juan County, Utah

Above Data Required on Well Sign

GENERAL REQUIREMENTS
FOR
OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

In addition to those requirements set forth in the laws, regulations and Onshore Orders, these requirements apply generally to all oil and gas operations on Federal and Indian leases. They apply specifically to the above-described well. Special requirements that apply and are effective for this well, if any, are check-marked in Section VII of these General Requirements. The failure of the operator to comply with these requirements and the filing of required reports will result in strict enforcement of 43 CFR 3163.1 or 3163.2.

I. GENERAL

A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.

B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or allotted, (see 43 CFR 3162.6(b)).

C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.

D. For Wildcat wells only, a drilling operations progress report is to be submitted weekly from spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8 1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.

E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).

2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.

3. Two copies of all electrical and open-hole logs run (two copies of the mud log are required if no open hole electric logs are run).

4. A cement evaluation log if cement is not circulated to surface.

III. DRILLER'S LOG

A. The following shall be entered in the daily driller's log:

1. Blowout preventer pressure tests, including test pressures and results.

2. Blowout preventer tests for proper functioning.

3. Blowout prevention drills conducted.

4. Casing run, including size, grade, weight, and depth set.

5. How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc..

6. Waiting on cement time for each casing string.

7. Casing pressure tests after cementing, including test pressure and results.

8. Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

IV. GAS FLARING

A. Gas produced from this well may not be vented or flared beyond an initial, authorized test period of _____* days or 50 MMcf following its (completion) (recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

* 30 days, unless a longer test period specifically is approved by the authorized officer. The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion.

BLM CONDITIONS OF APPROVAL

Operator Chuska Energy Company Well Name 31-G Jack
Legal Location 2170'FNL/1390'FEL Sec. 31 T. 41 S. R. 24 E.
Lease Number NOG-8702-1116 Field Inspection Date 11/14/91

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between the operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160)
1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

I. LOCATION AND ACCESS ROAD

A. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site. Trash cages will be used for all solid waste and removed from location to an approved solid waste disposal site. No solid waste shall be put in reserve pit before, during or after drilling operations.

B. Piñon-juniper trees and brush will be uprooted from road ROW and well pad locations and distributed along ROWs and stockpiled beside well pads for fuelwood salvage. Care will be taken to keep trees as undamaged as practically possible. Large vegetation such as sagebrush, juniper and piñon will not be incorporated into pit walls. All uprooted vegetation will be scattered on the reclaimed portion of location so it does not detract from the natural appearance of the area.

C. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.

D. Mud pits and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawlertype tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.

E. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with N.M. State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area.

F. No gravel or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.

G. Prior to crossing, using or paralleling any improvement on public land, operator shall contact the owner of the improvement to obtain mitigating measures to prevent damage to improvements.

H. All cut fences are to be tied to braces prior to cutting. The opening will be protected during construction to prevent the escape of livestock. A temporary closure will be installed on all cut fences the same day the fence is cut. A permanent cattleguard will be installed and maintained in any cut fence unless otherwise stipulated in writing. A twelve-foot gate will be installed adjacent to all new cattleguards.

I. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank.

J. All roads on public land must be maintained in good passable condition.

K. A proposed use of pesticide, herbicide or other possible hazardous chemical on BLM land shall be cleared for use prior to application.

CULTURAL RESOURCES (ARCHAEOLOGY)

A. EMERGENCY DISCOVERY IN THE ABSENCE OF MONITORING: This stipulation applies in emergency discovery situations where monitoring for cultural resources was not being performed because the presence of cultural resources could not have been anticipated. If, in its operations, operator discovers any historic or prehistoric ruin, monument, or site, or any object of antiquity subject to the Antiquities Act of 1979, and 43 CFR Part 3, then work will be suspended and discovery promptly reported to BLM Area Manager. BLM will then specify what action is to be taken. BLM will evaluate the discovery, evaluate its significance, and consult with the State Historic Preservation Officer. Minor recordation, stabilization, or data recovery may be performed by BLM. However, more significant mitigation shall be carried out by a qualified, permitted archeologist. It is BLM's responsibility to ensure that such mitigation is carried out in accordance with 36 CFR Part 800.11. Given the timeframes involved in BLM's budgeting process, operators are strongly encouraged to fund such required mitigation. Further damage to significant cultural resources and operations in its vicinity will not be allowed until any required mitigation is successfully completed.

B. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: This stipulation applies to situations where archeological monitoring was taking place because local geologic conditions favored the presence of subsurface archeological sites in the project area. If monitoring confirms the

presence of subsurface sites, all work will cease in the site area. The monitor will immediately report this find to BLM Area Manager. BLM will specify what further steps must be taken to assess the damage to the site and to mitigate any adverse effects to it. Monitoring in these circumstances is considered to be a form of inventory and the operator will be responsible for obtaining at his/her expense a qualified permitted archeologist to complete a damage assessment report and to carry out any mitigation required by the BLM.

C. **DAMAGE TO PREVIOUSLY IDENTIFIED SITE:** This stipulation applies to situations where operations have damaged a previously identified archeological site that was visible on the surface. If, in its operations, operator damages, or is found to have damaged, any historic or prehistoric ruin/monument/or site/or any object of antiquity subject to the Antiquities Act of 1906, the Archeological Resource Protection Act of 1979, and 32 CFR Part 3, the grantee will prepare and implement a data recovery plan at his/her expense. The grantee will obtain at his/her expense, a qualified permitted archeologist to carry out the specific instruction of BLM.

RESEEDING AND ABANDONMENT

A. All surface areas disturbed during drilling activities and not in use for production activities, will be reseeded the first July-September period after reserve pit has been filled in and/or location abandoned. For producing locations, this should occur in the first 12 months after drilling is completed.

B. After top soil has been placed on location, compacted areas of well pad will be plowed or ripped to a depth of 12" before reseeded. The surface should be left rough to help retain rain fall. All seeding is recommended to be done between July 1 and September 15. Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted between one-half inch deep and three quarter inch deep. The seeder will be followed with a drag, packer or roller to insure uniform coverage of seed, and adequate compaction. Drilling of the seed will be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder will be used, after preparation of an adequate seed-bed. Seed will then be covered to a depth described above by whatever means is practical. Mulching, excelsior netting and/or netting may be required on steep slopes.

C. After seeding, remaining rocks and vegetation (trees, brush, etc.) should be placed on the seeded areas using back hoes or rubber tired front-end loaders.

D. If, in the opinion of the SMA, the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

E. If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a deadend ditch and earthen barricade at the entrance to these ripped areas. (Re seeding of affected areas may be required).

BUREAU OF INDIAN AFFAIRS
SURFACE MANAGEMENT STIPULATIONS
TO BE INCLUDED IN APD

RECEIVED
BLM

92 MAR -6 PM 1:22

COMPANY.....: Chuska Energy Co.
WELL NO.....: JACK 31-G
DATE OF INSPECTION: Nor. 14, 1991
PROVIDED BY.....: R. Cornett

019 FARMINGTON, N.M.

CHECKED

APPLY

- ✓ 1. ALL ABOVE GROUND STRUCTURES AND EQUIPMENT WILL BE PAINTED WITH THE FOLLOWING NON-GLARE COLOR.

<u>BROWN</u>	<u>FED. STANDARD</u>	<u>595A - 30318</u>
<u>GREEN</u>	<u>FED. STANDARD</u>	<u>595A - 34127</u>
<u>GRAY</u>	<u>FED. STANDARD</u>	<u>595A - 36357</u>
✓ <u>SAND</u>	<u>FED. STANDARD</u>	<u>595A - 30277</u>
<u>MOBIL BEIGE 12-F-38</u>		

- ✓ 2. COMPACTED AREAS WILL BE PLOWED OR RIPPED TO A DEPTH OF 12 TO 16 INCHES BEFORE RESEEDING. SEED WILL BE DRILLED TO A DEPTH OF .5 TO .75 INCH OR BROADCAST AND FOLLOWED BY A DRAG OR PACKER. IF BROADCAST, THE RECOMMENDED SEED MIX WILL BE APPLIED AT 150% OF THE RECOMMENDED RATE. THE FOLLOWING SEED MIX WILL BE USED.

<u>SPECIES</u>	<u>LBS./ACRE/PLS</u>
CRESTED WHEATGRASS.....	
SLENDER WHEATGRASS.....	
SMOOTH BROME.....	
ORCHARDGRASS.....	
YELLOW SWEETCLOVER.....	
SAINFOIN.....	
WESTERN WHEATGRASS.....	
* ✓ SAND DROPSEED.....	<u>1</u>
* ✓ ALKALI SAGE GIANT DROPSEED.....	<u>1</u>
✓ INDIAN RICEGRASS.....	<u>3</u>
GALLETA.....	
NEEDLE-N-THREAD.....	
SQUIRREL TAIL.....	
SIDE OATS GRAMA.....	
✓ FOUR-WING SALTBUSH.....	<u>3</u>
SHADSCALE.....	
WINTER-FAT.....	

(PURITY X GERMINATION = PLS) * Broadcast Only

3. ✓ THE TOP 10 INCHES OF SOIL WILL BE SALVAGED, STOCKPILED, AND STABILIZED ON THE SIDE/CORNER OF THE WELL PAD AND/OR IN THE "L" CORNER OF THE WELL PAD AND RESERVE PIT FOR USE IN REVEGETATING THE SITE.
4. NA UPON ABANDONMENT, THE WELL PAD WILL BE FENCED WITH A STANDARD FIVE-STRAND BARB WIRE FENCE, OR EQUIVALENT AND WILL HAVE NO GATES. THE FENCE WILL BE MAINTAINED FOR TWO YEARS TO ALLOW FOR SEEDING ESTABLISHMENT AND WILL THEN BE REMOVED.

5. ✓ ACCESS ROADS NOT NEEDED FOR THROUGH TRAFFIC WILL BE BARRICADED AND RESEDED IN ACCORDANCE WITH #2. WATER BARS WILL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS.

<u>% SLOPE</u>	<u>SLOPE DISTANCE</u>
1 - 5%	200 FEET
5% - 15%	100 FEET
GREATER THAN 15%	50 FEET

6. ☒ AN EARTHEN BERM (18 INCHES/~~FEET~~ HIGH) WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE WELL PAD, EXCEPT ON THE HIGH/CUT SIDE OF THE WELL PAD.
7. ☒ THE RESERVE PIT WILL BE LINED TO PREVENT SEEPAGE FROM OCCURRING.
8. NA THE RESERVE PIT WILL BE CONSTRUCTED LONG AND NARROW (X FEET) SO THAT THE PIT CAN BE ACCOMODATED AND ANY POTENTIAL HAZARDS REDUCED OR ELIMINATED.
9. NA IMMEDIATELY FOLLOWING DRILLING, THE FLUIDS OF THE RESERVE PIT WILL BE PUMPED AND DISPOSED OF PER BLM INSTRUCTIONS. A SUNDRY NOTICE FOR THIS ACTION IS REQUIRED BY BLM.
10. ☒ DIVERSION DITCH (ES) WILL BE CONSTRUCTED ON THE E SIDE OF THE WELL PAD ~~ABOVE~~/BELOW (CIRCLE ONE) THE CUT SLOPE DIVERTING ANY RUNOFF TO THE .
11. ☒ THE WASH (ES) WILL BE DIVERTED AROUND THE E SIDE OF THE WELL PAD.
12. ☒ CULVERT(S) OF SUFFICIENT SIZE WILL BE PLACED ON ALL DRAINAGE CROSSINGS OF THE ACCESS ROAD DETERMINED NECESSARY DURING THE ON-SITE INSPECTION.
13. ☒ NO PRODUCTION FLOWLINES NOR GAS SALES LINES WILL BE CONSTRUCTED UNTIL THEIR RIGHT-OF-WAYS/EASEMENTS ARE INSPECTED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY.
14. NA ANY FLOWLINE(S) (SURFACE/SUBSURFACE) WILL BE CONSTRUCTED PARALLELING NEW AND EXISTING ROAD RIGHT-OF-WAYS, EXCEPT .
15. NA THE TOP INCHES OF SOIL OF ANY SUBSURFACE FLOWLINE CONSTRUCTED WILL BE ROLLED/SCRAPED TO ONE SIDE OF THE BLADED LINE AND WILL BE DISTURBED AS LITTLE AS POSSIBLE DURING THE ACTUAL CONSTRUCTION. IMMEDIATELY FOLLOWING INSTALLATION, THE ROLL OF TOPSOIL SALVAGED WILL BE REDISTRIBUTED OVER THE BLADED LINE AND WILL BE RESEEDDED IN ACCORDANCE WITH ITEM #2. IN ADDITION TO THIS, ALL AREAS DISTURBED (INCLUDING THE REPLACED TOPSOIL) WILL BE IMPRINTED WITH A LAND IMPRINTER OR SHEEP'S FOOT TYPE ROLLER TO CREATE A PATTERN OF SMALL DEPRESSIONS TO ENHANCE VEGETATIVE REGROWTH. ALL DRAINAGES CROSSED BY THESE LINE(S) WILL BE RESTORED, AS NEAR AS POSSIBLE, TO THEIR ORIGINAL FORM. WATER BARS WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM #5.

16. NA FENCE (S) CROSSED BY THE ACCESS ROAD WILL BE BRACED AND TIED OFF BEFORE CUTTING OF THE WIRES TO PREVENT SLACKENING OF THE FENCE LINES. BOTH A GATE AND CATTLEGUARD WHICH MUST BE BIA APPROVED WILL BE INSTALLED.
17. ☒ STORAGE TANK(S) INSTALLED ON THE LOCATION WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN 1-1/2 TIMES THE STORAGE CAPACITY OF THE TANK(S).
18. ☒ THE STIPULATIONS SET FORTH IN THE ARCHEOLOGICAL CLEARANCE LETTER DATED 12/12/91 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-91-553
19. ☒ UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO PLATE THE SURFACE OF THE WELL PAD AND/OR THE ACCESS ROAD WILL BE CLEANED UP AND DISPOSED OF PRIOR TO RESEEDING.
20. NA THE CONSTRUCTION WORK CONDUCTED AT THIS LOCATION WILL NEED TO BE INSPECTED BEFORE THE DRILL RIG IS MOVED ON THE LOCATION.

ALL CHANGES/DEVIATIONS MADE FROM THE APPROVED APD MUST BE CLEARED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY. THE SURFACE MANAGEMENT AGENCY CAN BE CONTACTED AT (505) 368-4427.

OTHER:



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

September 7, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's
Reporting Requirements

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M
Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Crane 35H
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Heron 35H(A)
Jack 31G
Kokopelli 29I
Lark 19B
Lark 19B(G)
Lighting Rock 2E
Lizard 4M
Lone Mountain Creek 12F-1

**UTAH DRILLING PROGRESS
SAN JUAN COUNTY CONTINUED**

CHUSKA ENERGY *file*
35K D C ANTICLINE
API 43-037-60050-0101

35-41S-23E
 NE NE SW
 2390 FSL 2150 FWL

WILDCAT; 5850, (FR 04/27/92DN) OPER ADD: 3315 BLOOMFIELD HWY, FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL: 4756 GR; LOCATION DATA: 2 1/2 MI SW ANETH GREATER FLD(PARADOX/DES CRK/ISMAY) 9 3/4 MI W-SW ANETH, UT; AMMANN BASE MAP UT-102. OWRD OLD INFO: FORMERLY CHUSKA ENERGY 35K D C ANTICLINE. SPUD 3/26/92. 5850 TD(APPROX). COMP 4/14/92, D&A;

WFX

CONTR: AZTEC WELL SRVCG, RIG #222;SPUD: 04/14/92, SET WHIPSTOCK @ 3903 5850 TD, (TD REACHED: 05/ 01/92); ... 5850 TD(APPROX), TITE HOLE (LDIR 12/03/92)

CHUSKA ENERGY *file*
31K BURRO
IC 43-037-70063-91

31-41S-24E
 NW NE SE
 2305 FSL 1120 FEL

WILDCAT; CONFIDENTIAL, (FR 12/26/91DN) OPER ADD: 1775 SHERMAN STE 1880, DENVER, CO. 80203 PHONE (303) 863-7021; LOCATION DATA: 1 1/2 MI SW ANETH GREATER FLD(PARADOX/ISMAY/DES CRK) 7 1/2 MI W-SW ANETH, UT; AMMANN BASE MAP UT-102.

WF

CONTR: AZTEC WELL SRVCG, RIG #222;SPUD: 07/14/92, CSG: RAN SURF CSG: 5000 TD, (TD REACHED: 07/ 25/92); ... 5000 TD(APPROX), TITE HOLE (LDIR 12/03/92)

CHUSKA ENERGY *file*
31G JACK
IC 43-037-70067-91

31-41S-24E
 SE SW NE
 2170 FNL 1390 FEL

UNNAMED; CONFIDENTIAL, (FR 12/26/91DN) OPER ADD: 1775 SHERMAN STE 1880, DENVER, CO. 80203 PHONE (303) 863-7021; EL: 4924 GR; LOCATION DATA: 1 1/4 MI SW ANETH GREATER FLD(DES CRK/ISMAY/PARADOX) 7 3/4 MI W-SW ANETH, UT; AMMANN BASE MAP UT-102. WELL ID CHANGES: RGE CHGD FROM 26E.

**WOE
OIL**

CONTR: AZTEC WELL SRVCG, RIG #222;SPUD: 05/19/92, CSG: RAN SURF & PROD CSG; LOG TOPS: NAVAJO 781, CHINLE 1606, DESERT CREEK 2745, HERMOSA 4695, ISMAY U 5538, ISMAY L 5656, GOTHIC 5683, AKAH 5887; DRLG COMMENTS: LOCAL CALLS(LOG): CUTLER 2955, HOVENWEEP 5647, CHIMNEY ROCK 5874. 5933 TD. (AKAH) (TD REACHED: 06/ 01/92) 5907 PBTD ; PRODUCING INTERVAL(S) DATA: PERF (GOTHIC) 5735-5829 5933 TD, PB 5907. COMP 6/18/92, IPF 428 BOPD. PROD ZONE - GOTHIC 5735-5829. HOLDING FOR DATA. (PARADOX EXTENSION) (LDIR 10/27/92)

CHUSKA ENERGY *file*
31-K-1 MULE
IC 43-037-70021-91

31-41S-24E
 NE SE SW
 692 FSL 2296 FWL

UNNAMED; 5877, (FR 04/01/91DN) OPER ADD: 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL: 4939 GR; LOCATION DATA: 1 MI W OF ANETH GREATER FLD(DESERT CREEK/PARADOX/ ISMAY) 14 MI SE BLUFF, UT; AMMANN BASE MAP UT-9. WELL ID CHANGES: WELL NUMBER CHGD FROM 31K. SPOT CHGD FROM SE NE SW. FTG CHGD FROM 1650 FSL 2030 FWL.

**WFD
OIL**

CONTR: AZTEC WELL SRVCG, RIG #184;SPUD: 10/01/91 (EST), CSG: RAN SURF & PROD CSG; LOG TOPS: HERMOSA 4762, ISMAY U 5720, ISMAY L 5854, GOTHIC 5893, DESERT CREEK 5915; DRLG COMMENTS: LOCAL CALLS(LOG): HOVENWEEP 5841, CHIMNEY ROCK 6097. 6161 TD. (DESERT CREEK) (TD REACHED: 10/ 10/91); PROD TEST(S): PERF (DESERT CREEK) 6003-6029, S 240 BOPD. PRODUCING INTERVAL(S) DATA: PERF (DESERT CREEK) 6003-6029 FLWG O&G(AMT NOT RPTD). 6161 TD. COMP 10/13/91, SIO&GW PROD ZONE - DESERT CREEK 6003-6029 HOLDING FOR DATA. (DESERT CREEK DISCOVERY - NEW FIELD) (LDIR 10/27/92)

CHUSKA ENERGY *file*
31M MULE
IC 43-037-70066-91

31-41S-24E
 SE SW SW
 580 FSL 1210 FWL

WILDCAT; CONFIDENTIAL, (FR 12/26/91DN) OPER ADD: 1775 SHERMAN STE 1880, DENVER, CO. 80203 PHONE (303) 863-7021; EL: 4885 GR; LOCATION DATA: 1 1/2 MI SW ANETH GREATER FLD(ISMAY/DES CRK/PARADOX) 8 1/4 MI W-SW ANETH, UT; AMMANN BASE MAP UT-102. WELL ID CHANGES: FTG CHGD FROM 580 FSL 1090 FWL.

WF

CONTR: AZTEC WELL SRVCG, RIG #222;SPUD: 03/01/92 (EST), CSG: RAN SURF & PROD CSGS; (TD REACHED: 03/ 14/92); PROD TEST(S): PERF INT & FM NOT RPTD, GAUGE NOT RPTD. ... TITE HOLE (LDIR 12/03/92)

CHUSKA ENERGY
1 OAK 11G
API 43-037-31548

11-41S-25E
 SE SW NE
 2260 FNL 1520 FEL
 IC 430377007390

WILDCAT; 5701 DESERT CREEK, (FR 08/06/90DN) OPER ADD: BOX 780, FARMINGTON, NM, 87499 PHONE (505) 326-5525; EL: 4551 GR; LOCATION DATA: 1 MI SW ANETH GREATER FLD(PARADOX) 22 1/2 MI E-SE BLUFF, UT; AMMANN BASE MAP UT-9, POMCO MAP U-84, PERMIT REISSUED: 09/29/92

WF

LOC;

GIANT EXPL & PROD
22-14 SE MCELMO
API 43-037-31646

22-41S-25E
 NE SW SW
 832 FSL 746 FWL
 IC 430377004891

ANETH GREATER; 5595 DESERT CREEK, (FR 07/26/91FM) OPER ADD: BOX 2810, FARMINGTON, NM. 87499 PHONE (505) 326-3325; EL: 4582 GR; LOCATION DATA: 1 1/2 MI SE ANETH, UT; AMMANN BASE MAP UT-9,

D

LOC;

GIANT EXPL & PROD
27-13 SE MCELMO
API 43-037-31645

27-41S-25E
 SE NW SW
 1800 FSL 1270 FWL
 IC 430377004791

ANETH GREATER; 5535 DESERT CREEK, (FR 07/26/91FM) OPER ADD: BOX 2810, FARMINGTON, NM. 87499 PHONE (505) 326-3325; EL: 4582 GR; LOCATION DATA: 2 MI SE ANETH, UT; AMMANN BASE MAP UT-9, WELL ID CHANGES: WELL NAME CHGD FROM 27-33 SE MCELMO. FTG CHGD FROM 1800 FSL 1800 FWL. SPOT CHGD FROM SW NE SW. FIRST REPORT REISSUE: REISSUE TO CORRECT WELL NAME, FTG, SPOT. REISSUE FOR FR ISSUED 7/29/91;

D

LOC;

CHUSKA ENERGY *file*
33-O CLAY HILL
IC 43-037-70046-91

33-41S-25E
 SE SW SE
 370 FSL 1750 FEL

WILDCAT; 5496, (FR 07/24/91DN) OPER ADD: 3315 BLOOMFIELD HWY, FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL: 4533 GR; LOCATION DATA: 1 MI SW CLAY HILL FLD(DESERT CREEK) 3 MI S ANETH, UT; AMMANN BASE MAP UT-9,

WF

CONTR: AZTEC WELL SRVCG, RIG #184;SPUD: 11/09/91, CSG: RAN SURF CSG; LOG TYPES: CWL; 5684 TD, (TD REACHED: 11/ 19/91); ... 5684 TD(TITE HOLE) (LDIR 12/03/92)

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LARRY G SESSIONS
CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HWY
FARMINGTON NM 87401

UTAH ACCOUNT NUMBER: N9290

REPORT PERIOD (MONTH/YEAR): 12 / 93

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
JACK 31G								
✓4303731709	11497	41S 24E 31	DSCR	No Cert NO FILE	done/DTS			
MULE 31M								
✓4303731710	11498	41S 24E 31	DSCR					
HERON 35H-A (RIG SKID)								
✓4303731711	11499	41S 25E 35	PRDX					
LIZARD 4m								
✓4303731619	11555	41S 23E 4	DSCR					
HILLSIDE GC-1								
✓4303731721	11570	42S 25E 6	IS-DC - DRL	(Cont.)				
CLAY HILL 330								
✓4303731723	11612	41S 25E 33	DSCR					
TOTALS								

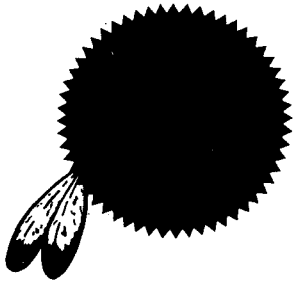
COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

Telephone Number: _____



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

We are pleased to announce that effective January 18, 1994, Chuska Energy Company, has changed its name to Harken Southwest Corporation. This is in line with the February 1993 merger with Harken Exploration Company.

Harken Southwest Corporation is still located at 3315 Bloomfield Highway, Farmington, New Mexico, 87401. You may still contact us at (505) 326-5525.

Please reflect this name change as necessary on all future correspondence.

Thank you for your assistance in this matter and we look forward to working with you as Harken Southwest Corporation.

Sincerely,

Barry A. Wieland
Operations Manager

RECEIVED

FEB 17 1994

DIVISION OF
OIL, GAS & MINING

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☐ Well File _____☐ Suspense
(Return Date) _____
(To - Initials) _____☒ Other
Open Nm. Change(Location) Sec _____ Twp _____ Rng _____
(API No.) _____1. Date of Phone Call: 2-9-94 Time: 12:292. DOGM Employee (name) J. Cordova (Initiated Call ☒)
Talked to:Name Wayne Townsend (Initiated Call ☐) - Phone No. (505) 599-8900
(or Ken Townsend)
of (Company/Organization) Btm / Farmington N.M.3. Topic of Conversation: Chuska Energy Co. to Harken Southwest Corp.

4. Highlights of Conversation:

They have not rec'd doc. of name change. When they do receive doc. they will most likely keep "Chuska" as operator yet mail any correspondence % Harken, until BIA approval. (BIA approval may take a while!)

** 940210 Per Admin. OK to change.*

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-SJ
2-DTS	8-FILE
3-VLC	
4-RJF	
5-LEC	
6-PL	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- ☐ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☒ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-18-94)

TO (new operator) HARKEN SOUTHWEST CORPORATION FROM (former operator) CHUSKA ENERGY COMPANY
(address) 3315 BLOOMFIELD HWY (address) 3315 BLOOMFIELD HWY
FARMINGTON NM 87401 FARMINGTON NM 87401
phone (505) 326-5525 phone (505) 326-5525
account no. N 9290 account no. N9290

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: <u>037.31709</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Lee 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 2-7-94)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- Lee 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: #096704.
- Lee 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-10-94)
- Lee 6. Cardex file has been updated for each well listed above. (2-10-94)
- Lee 7. Well file labels have been updated for each well listed above. (2-10-94)
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- Lee 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- See 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A See 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: March 7 1994.

FILING

- See 1. Copies of all attachments to this form have been filed in each well file.
- See 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 07 1995

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

OIL, GAS & MIN

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

See Attached List

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA, Agreement Designation

8. Well Name and No.

See Attached List

9. API Well No. 43-037-31709

See Attached List

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other Flaring during plant shut-down

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pursuant to the attached notice from Elkhorn Operating, Harken Southwest request permission to vent/flame all non-lease use gas from September 18, 1995 thru September 22, 1995 or until the Aneth Plant resumes operation.

Attached is a list of wells which will be affected by the plant shut down. The list is compiled in API number order.

Should any questions arise, please contact Mr. Richard Cottle, Farmington, New Mexico @ (505) 327-5531 or the undersigned.

cc: Navajo Nation
State of Utah

14. I hereby certify that the foregoing is true and correct

Signed

Title

Date

Approved by
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

HARKEN SOUTHWEST CORPORATION

Request permission to flare/vent gas production on the following wells during the shut-down of the Aneth Plant Monday, September 18 thru Friday, September 22, 1995.

<u>Well Name</u>	<u>Sec-Twnshp-Rng</u>	<u>API Number</u>
Navajo Tribal 23-13	13-40S-24E	43-037-30971
Navajo Tribal 41-2	02-42S-24E	43-037-31041
Sahgzie #1	05-42S-24E	43-037-31472
Anasazi #1	05-42S-24E	43-037-31478
Cajon Mesa 8D-1	08-40S-25E	43-037-31497
Monument 8N-2	08-40S-25E	43-037-31509
Runway 10G-1	10-40S-25E	43-037-31515
Monument 17E	17-40S-25E	43-037-31547
Runway 10E-2	10-40S-25E	43-037-31550
Blue Hogan 1J-1	01-42S-23E	43-037-31562
Anasazi 5L-3	05-42S-24E	43-037-31572
Brown Hogan 1A-2	01-42S-23E	43-037-31573
Runway 10C-5A	10-40S-25E	43-037-31597
North Heron 35C	35-41S-25E	43-037-31616
Burro 31-I	31-41S-24E	43-037-31708
Jack 31G	31-41S-24E	43-037-31709
Mule 31M	31-41S-24E	43-037-31710
Big Sky 6E (6L)	06-42S-25E	43-037-31714
Hillside 6C-1	06-42S-25E	43-037-31721



ELKHORN OPERATING COMPANY
ANETH PLANT
P.O. BOX 70
MONTEZUMA CREEK, UTAH 84534
Memorandum



To: See Distribution List
From: Gene Gruette
Date: August 18, 1995
Subject: ANETH PLANT SHUTDOWN

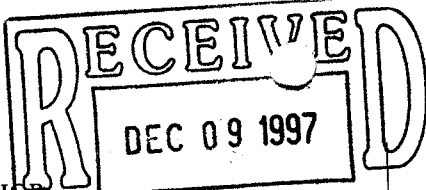
Aneth Plant will be shut down on September 18, 1995 to make necessary repairs to the cooling tower, inspect and clean gas coolers, and repair other equipment which requires a plant shutdown.

We plan to have the plant started back up the afternoon of Friday, September 22, 1995.

Each operator will need to make whatever contacts with regulatory agencies and gas marketers, etc. they deem necessary.

Should you have questions, call the writer at (801)631-3254.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIV. OF OIL, GAS & MINING



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Lease Designation and Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/NE Section 31-41S-24E
2170' FNL & 1390' FEL

NOG 8707-1231

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Jack 31G

9. API Well No.

43-037-31709

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Harken Southwest attempted to reduce the water production out of the subject wellbore by performing the following work during November, 1997:

11/14/97 - RU Halliburton Wireline. Run GR-CCL correlation log. Perforate squeeze holes - 4 JSPF, 60° phasing, 8 shots @ 5804-06'. Set retainer @ 5795'

11/17/97 - Halliburton performed the following cement squeeze:

Stage 1 - 7 bbl fresh water spacer; Stage 2 - 10.4 bbls cement slurry Classs "G" w/.4% HALAD 344 & 3% KCL; 50 sxs, 1.15 yield @ 15.8 lbs/gal; maximum squeeze pressure 600 psig at surface. Stage 3 - 12 bbls fresh produced water for displacement. Stage 4 - 22 bbls produced water for displacement. Total displacement 34 bbls sting out of retainer. Stage 5 - 10 bbls; reverse circulation. TOO. Wait on cement overnight

11/18/97 - TIH w/bit & scrapper. Tag retainer @ 5795'. Run equipment and return well to production.

CC: State of Utah; Navajo Nation; BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct

Signed

Rachelle Montgomery

Title

Production Administrator

Date

12/03/97

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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*See Instruction on Reverse Side

WORKOVER ON JACK 31-G

- 05-28-96 Rig on location. Shut down PU, RU rig. RD horses head stuffing box and radigan. Unseat pump. POH w/polished rod, rods and pump. Pump showed visual evidence of fluid pound. WO BOPs. SWIFN since BOPs will not arrive until after 6:00 p.m.
- 05-29-96 SITP: O SICP:O. NU csg flange and BOPs. Unseat TA, POH with tbg. Found solid salt plug in bottom of mud anchor, cleaned out same. PU bit and csg scraper with x-over. RIH on 2 7/8" tbg to clean across perfs. Tagged CIBP @ 5810' (5816' KB). POH w/tbg rods csg scraper/bit. PU PPIP tool (1' spacing) assembly with mechanical CCL. RIH on 2 7/8" tbg to 5775' KB. Found 5 1/2" collar @ 5778' KB with sub jnt. PPIP on depth. SWDFN. Will acidize in am.
- 05-30-96 RU Halliburton to acidize. Set PPIP in blank below perfs @ 5759' KB. RU to pressure test. Filled tbg with 25 bbls fresh water - would not hold pressure above 1600 psi. Suspect PPIP in bottom perf. RIH w 1 jnt tbg. RU to pressure test - tested to 2000 psi - held fine. POH w/1 jnt tbg. RU to acidize, filled tbg again with 25 bbls fresh water. Dropped RFC valve. Established return through RFC, RFC opening @ 1600-1800 psi applied. Circulated acid/xylene mix to end of tbg. Began acidizing perforations 5759-5742' and 5737-5735' KB with PPIP wash tool set at 1' spacing. Made 19 sets treating perforations at an average of 1700-2150 psig @ 1-1.1 BPM (5759-5749') and 1750-1900 psig 1-1.2 BPM (5749-5742') and 1600-1750 psig 1-1.2 BPM (5737-5735') with 50 gal/ft, 1000 gallons total. Acid/solvent mixture consisting of 7 1/2% PAD acid, 10 gallons surfactant 90 gal xylene solvent. 2 gal HAI - 81. RD Halliburton RU to fish RFC and standing valves. Fished valves. RU to swab. Replaced flanges. Began swabbing. SN @ 5730' KB. Swabbing back water. No live acid recovered estimate all acid is spent. All water samples PH=6.0. Overall swab rate. 63 BBL/4 hr = 15.75 bbl/hr. Will POH with PPOP in am. Will run new pump and POP tomorrow. JDFN.
- 05-31-96 Unset PPIP tool, POH with tbg and PPIP. Pick up bottom hole pump assembly, RIH on tbg. Picked up newly rebuilt rod pump. RIH on rods. Bottom hole assembly as follows:

Pump 2 1/2" X 1 3/4" X 16' X 17" X 21" RHAL

178 jnts - 2 7/8" tbg X 8', 4' sub: 0 - 5636' KB

5 1/2" X 2 7/8" TAC new 5636-5640' KB

4 jnts 2 7/8" tbg 5640-5765' KB

2 7/8" SN 5765-5766' KB

4' X 2 7/8" perf'd sub 5766-5770' KB

1 jnt 2 7/8" tbg 5770-5801' KB

2 7/8" bull plug 5801-5802' KB

(131) - 3/4" X 25' rods

(12) - 3/4" X 25' scrapped rods

(87) - 7/8" X 25' scrapped rods

(1) 2' X 7/8" pony rod

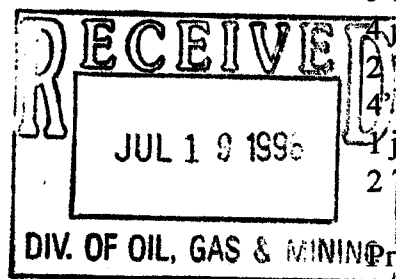
(1) 4' X 7/8" pony rod

(1) 6' X 7/8" pony rod

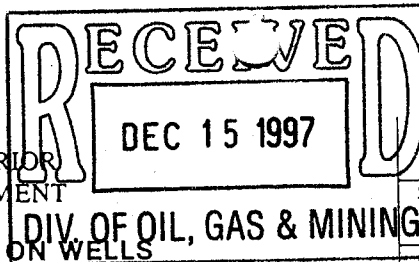
(1) 1 1/2" X 22' sm polished rod

Production perfs @ 5735-5737' & 5742-5759' KB, CIBP @ 5816' KB

RU used polished rod from McPend. Old polished rod had pits. Seat to space out pump, install stuffing box, radigan & tec. RU horses head. Fill tbg with 33 bbls produced water. Checked pump action - ok 450 psi. RD rig move over to Blue Hogan 1J-1. RU bottom tank to start up Jack 31-G. Ajax 60.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
NOG 8707-1231

6. If Indian, Allottee or Tribe Name
Navajo Nation

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
Jack 31G

9. API Well No.
43-037-31709

10. Field and Pool, or Exploratory Area

11. County or Parish, State
San Juan Co., U

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P. O. Box 612007, Dallas, TX 75261-0007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/NE Section 31-41S-24E
2170' FNL & 1390' FEL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Status Change

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The cement work performed in November 1997, was unsuccessful in decreasing water production. Therefore, due to the high volume of water and high disposal cost the subject well has been shut-in for engineering evaluation.

The last date of production was December 4, 1997.

CC: State of Utah
Navajo Nation
BIA - Gallup, NM

I hereby certify that the foregoing is true and correct

Signed

R. Montgomery R. Montgomery Production Administrator

Date

12/5/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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San Juan, Utah

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261 (972)753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/NE Sec 31-41S-24E
2170' FNL & 1390' FEL**

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☐ Final Abandonment Notice

TYPE OF ACTION

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☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Squeeze off**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

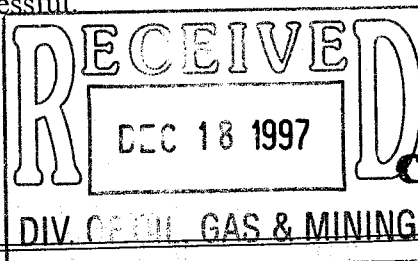
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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The subject well was shut-in for economic reasons, since the disposal costs exceed all revenue from both the oil and gas production. Harken Southwest proposes a second squeeze job to shut-off a suspected channel, behind pipe, where it is believed the bulk of the produced water is being produced from.

This work, if successful, will allow a substantial reduction in water production and provide economic hydrocarbon production rates. The wellbore will be immediately returned to production, providing this procedure is successful.

CC: State of Utah
Navajo Nation
BIA - Gallup, NM



CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct

Signed

Title **Production Administrator**

Date **12/12/97**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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*See Instruction on Reverse Side

WELL REPORT

COMPANY: HARKEN Southwest Corp

WELL NAME: Jack 31 G

Current Installation
as of 11/18/97

SURFACE CSG. SET @ 529'
8 5/8", 24# J-55 @ 370sx1

DVT @ 3506' KB

1 8' x 2 3/8" sub
178 jnts
2 3/8" Hg

PERFS: 5735'-5737' KB

PERFS: 5742'-5759' KB

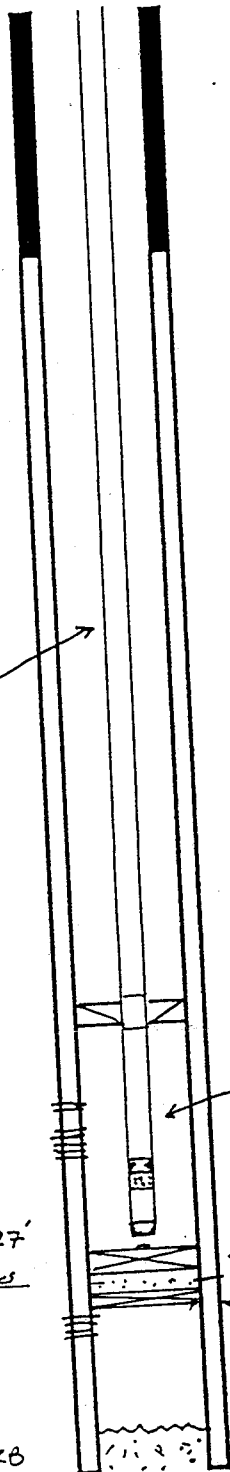
PERFS: 5817'-5829' KB

EOT @ 5791' KB

PRODUCTION STRING CSG. SET @ 5927'
5 1/2", 15.5# J-55 @ 1299sx1

TUBING SET @ _____

PLUG BACK TOTAL DEPTH: 5907' KB



NOTES:

CONFIDENTIAL

TD 5933' KB

Jack 31G
Water Shut-Off Squeeze Procedure
Hydro Check Service

CONFIDENTIAL

1. Shut down PU, unseat pump, POH with rods and pump.
2. Unset TAC, pull out of hole with tubing and bottom hole assembly.
3. Pick up Starguide stinger assembly and RIH to EZ Drill cement retainer @ 5795'. Sting into cement retainer.
4. Attempt to inject and pump through perfs below EZ Drill.
5. If able to pump, proceed with step 7; if not able to pump, pull out of hole with tubing and perforate squeeze holes at 5790' and proceed with step 6.
6. RIH with a 5-1/2" EZSV on 2-7/8" tubing and set @ $\pm 5'$ above the top squeeze perfs.
7. Sting into EZSV, pump into the perforations and achieve an injection rate while monitoring the backside for returns (may need a bag to test for backside blow).
8. Sting out of EZSV to spot the following:
 - a) Pump 5 bbls of fresh water spacer.
 - b) Pump 20 bbls of 6% CaCl₂ water.
 - c) Pump 1000 gals of Flo-Chek 11.
 - d) Pump 5 bbls of fresh water spacer.
 - e) Mix 25 sacks of Micro Matrix Cement.
 - f) Mix 25 sacks of Premium Cement w/0.5% Halad-322.
9. Pump Flo-Chek 11 and cement down tubing to within 2 bbls of tubing end.
10. Sting back into EZSV.
11. Pump Flo-Chek 11 and cement away while monitoring backside for flow.
12. Shut-in backside when the cement is on the perfs and try to squeeze off channel.
13. Displace with water to the top of the EZSV + 1/2 bbl.
14. Sting out of the EZSV. POH 6 strands to clear production perfs and reverse circulated tubing clean (if possible).
15. After tubing is clean, shut-in with pressure on well (if possible) and shut down for the day.
16. If we don't achieve a squeeze, then over displace by 5 bbls and prepare to squeeze again.

17. Wait 4 hours, then:
- a) Pump 5 bbls of fresh water spacer.
 - b) Pump 500 gals of Flo-Chek 11.
 - c) Pump 5 bbls of fresh water.
 - d) Pump 25 sacks of Micro Matrix Cement.
 - e) Pump 25 sacks of Premium Cement w/0.5% Halad-322. Repeat tubing cleaning. POH with tubing. WOC.
18. PU bit and scraper, RIH to tag cement. Make sure production perfs @ 5735-5759' KB are clear.
19. If cement top is below 5759' KB, run production equipment as low as possible, note higher PBTD. If cement covers perfs, call Dallas for orders to drill out cement, re-perf and re-acidize.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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5. Lease Designation and Serial No.
See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County
Utah**

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. Box 145, Farmington, NM 87499 (505)327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

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☒ Other **Vent/Flare Gas**
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Please be advised that RIM Southwest Corporation is requesting approval to vent gas until September 14, 2001. After September 14, we request permission to flare the gas until the Aneth Plant is back on line.

Attachment

cc: State of Utah
Navajo Nation-Minerals
Navajo Nation EPA - Air Quality
BIA - Gallup, NM

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 9/17/01

By: [Signature]

Exp. Oct 15, 2001

Federal Approval Of This
Action Is Necessary

COPY SENT TO OPERATOR
Date: 9-17-01
Initials: [Signature]

RECEIVED

SEP 21 2001

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed

Title **W. J. Holcomb, Vice President** Date **8/29/01**

(This space for Federal or State office use)

Approved by

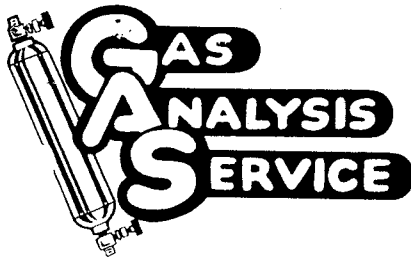
Conditions of approval, if any:

Title

Date

RIM SOUTHWEST CORPORATION

			ESTIMATED GAS	
			VENTED	
LEASE NUMBER	WELL NAME	SEC-TWN-RNG	MCF/DAY	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	- 43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	- 43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	- 43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	- 43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	- 43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	- 43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	- 43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	- 43-037-31472
	Anasazi #1	05-42S-24E	67	- 43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	- 43-037-31515
	Runway 10C-5A	10-40S-25E	SI	- 43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	- 43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	- 43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	- 43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	- 43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	- 43-037-31708
	Jack 31G	31-41S-24E	SI	- 43-037-31709
	Mule 31K (N)	31-41S-24E	7	- 43-037-31617
	Mule 31M	31-41S-24E	24	- 43-037-31710
		TOTAL AVERAGE	254	



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC80013
CUST. NO. 33500- 10095

WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.
WELL NAME MULE 31M
COUNTY/ STATE SAN JUAN UT
LOCATION ANETH
FIELD
FORMATION
CUST.STN.NO. 202E412018

SOURCE N/A
PRESSURE 25 PSIG
SAMPLE TEMP 76 DEG.F
WELL FLOWING Y
DATE SAMPLED 6/30/98
SAMPLED BY FGM
FOREMAN/ENGR. STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.332	0.0000	0.00	0.0129
CO2	0.112	0.0000	0.00	0.0017
METHANE	57.114	0.0000	578.17	0.3164
ETHANE	19.739	5.2802	350.11	0.2049
PROPANE	11.863	3.2694	299.17	0.1806
I-BUTANE	1.498	0.4900	48.83	0.0301
N-BUTANE	4.080	1.2864	133.41	0.0819
I-PENTANE	1.011	0.3699	40.54	0.0252
N-PENTANE	1.215	0.4401	48.82	0.0303
HEXANE PLUS	2.036	0.8883	104.67	0.0655
TOTAL	100.000	12.0243	1,603.72	0.9494

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0067
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,614.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,586.4
REAL SPECIFIC GRAVITY 0.9559

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,605.7
DRY BTU @ 14.696 1,610.7
DRY BTU @ 14.730 1,614.5
DRY BTU @ 15.025 1,646.8

CYLINDER # SJ99
CYLINDER PRESSURE 10 PSIG
DATE RUN 7/1/98
ANALYSIS RUN BY DAVE MARTIN



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC80012
CUST. NO. 33500- 10015

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31K	PRESSURE	24 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	84 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION	DESERT CREEK	SAMPLED BY	FGM
CUST.STN.NO.	202E340052	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.925	0.0000	0.00	0.0186
CO2	0.133	0.0000	0.00	0.0020
METHANE	63.617	0.0000	643.99	0.3524
ETHANE	16.771	4.4862	297.47	0.1741
PROPANE	9.543	2.6301	240.66	0.1453
I-BUTANE	1.205	0.3942	39.28	0.0242
N-BUTANE	3.315	1.0452	108.39	0.0665
I-PENTANE	0.794	0.2905	31.84	0.0198
N-PENTANE	0.944	0.3419	37.93	0.0235
HEXANE PLUS	1.753	0.7648	90.12	0.0564
TOTAL	100.000	9.9529	1,489.68	0.8829

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0056
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,498.0
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,472.0
REAL SPECIFIC GRAVITY		0.8877

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,489.9
DRY BTU @ 14.696	1,494.6
DRY BTU @ 14.730	1,498.0
DRY BTU @ 15.025	1,528.0

CYLINDER #	048A
CYLINDER PRESSURE	24 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	CHELLE DURBIN



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC80009
CUST. NO. 33500- 10080

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	JACK 31G	PRESSURE	28 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E410005	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.975	0.0000	0.00	0.0191
CO2	0.062	0.0000	0.00	0.0009
METHANE	70.488	0.0000	713.55	0.3904
ETHANE	13.388	3.5813	237.46	0.1390
PROPANE	7.057	1.9449	177.97	0.1075
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.613	0.8239	85.44	0.0524
I-PENTANE	0.750	0.2744	30.08	0.0187
N-PENTANE	0.920	0.3332	36.97	0.0229
HEXANE PLUS	1.735	0.7570	89.20	0.0558
TOTAL	100.000	8.0458	1,403.66	0.8271

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0049
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,410.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,386.0
REAL SPECIFIC GRAVITY		0.8311

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,402.9
DRY BTU @ 14.696	1,407.3
DRY BTU @ 14.730	1,410.5
DRY BTU @ 15.025	1,438.8

CYLINDER #	004
CYLINDER PRESSURE	12 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00018
CUST. NO. 33500- 10035

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7
DRY BTU @ 14.696	1,412.2
DRY BTU @ 14.730	1,415.4
DRY BTU @ 15.025	1,443.8

CYLINDER #	007
CYLINDER PRESSURE	17 PSIG
DATE RUN	12/28/00
ANALYSIS RUN BY	GINA HANON

CQM, INC. ON-SITE GAS ANALYSIS

UNIT 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICES
 Station #: 78-153
 Station Name: BLUE/BROWN HOGAN
 Field: RIM SOUTHWEST

Report Date: 06/19/2001 13:48:14
 Sample Date: 06/13/2001
 Flowing Pressure: 0 psig
 Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_15306.2

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	3.577	0.000	0.035	
Methane	55.640	563.264	0.308	
CO2	0.033	0.000	0.001	
Ethane	17.739	314.636	0.184	4.744
H2S (APPROX)	0.000	0.000	0.000	
Propane	11.983	302.202	0.182	3.302
i-Butane	1.627	53.031	0.033	0.532
n-Butane	4.370	142.892	0.088	1.378
i-Pentane	1.194	47.881	0.030	0.437
n-Pentane	1.465	58.866	0.036	0.531
Hexanes	1.955	93.193	0.058	0.804
Heptanes	0.373	20.572	0.013	0.172
Octanes	0.044	2.756	0.002	0.023
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1599.293 0.969 11.922
 Unnormalized Total 111.244

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)

Dry = 1610.156
 Sat. = 1583.743
 Actual = 1610.156
 (0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.302
 Butane GPM = 1.910
 Gasoline GPM = 1.966
 26# Gasoline GPM = 3.344
 Total GPM = 11.922

Real Relative Density Calculated = 0.9755
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9933



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00010
CUST. NO. 33500- 10090

WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.
WELL NAME MONUMENT 17-E-2
COUNTY/ STATE SAN JUAN UT
LOCATION ANETH
FIELD
FORMATION
CUST.STN.NO. 202E311659

SOURCE N/A
PRESSURE 20 PSIG
SAMPLE TEMP 47 DEG.F
WELL FLOWING Y
DATE SAMPLED 12/21/00
SAMPLED BY FGM
FOREMAN/ENGR. STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0054
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,479.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,453.8
REAL SPECIFIC GRAVITY 0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,471.5
DRY BTU @ 14.696 1,476.1
DRY BTU @ 14.730 1,479.5
DRY BTU @ 15.025 1,509.2

CYLINDER # 005
CYLINDER PRESSURE 22 PSIG
DATE RUN 12/22/00
ANALYSIS RUN BY AMY JUSTICE



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00014
CUST. NO. 33500- 10120

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10E2	PRESSURE	21 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	60 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311617	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.534	0.0000	0.00	0.0052
CO2	0.053	0.0000	0.00	0.0008
METHANE	50.326	0.0000	509.45	0.2788
ETHANE	23.092	6.1771	409.58	0.2397
PROPANE	14.269	3.9325	359.85	0.2173
I-BUTANE	1.588	0.5194	51.76	0.0319
N-BUTANE	4.428	1.3961	144.79	0.0889
I-PENTANE	0.988	0.3615	39.62	0.0246
N-PENTANE	1.348	0.4882	54.17	0.0336
HEXANE PLUS	3.374	1.4721	173.46	0.1086
TOTAL	100.000	14.3471	1,742.68	1.0292

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0082
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,758.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,728.2
REAL SPECIFIC GRAVITY		1.0390

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,749.3
DRY BTU @ 14.696	1,754.8
DRY BTU @ 14.730	1,758.8
DRY BTU @ 15.025	1,794.1

CYLINDER #	AZT035
CYLINDER PRESSURE	26 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00013
CUST. NO. 33500- 10115

WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.
WELL NAME RUNAWAY 10C 5-A
COUNTY/STATE SAN JUAN UT
LOCATION ANETH
FIELD
FORMATION
CUST.STN.NO. 202E308719

SOURCE N/A
PRESSURE 9 PSIG
SAMPLE TEMP 69 DEG.F
WELL FLOWING Y
DATE SAMPLED 12/21/00
SAMPLED BY FGM
FOREMAN/ENGR. STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.794	0.0000	0.00	0.0077
CO2	0.109	0.0000	0.00	0.0017
METHANE	56.637	0.0000	573.34	0.3137
ETHANE	18.737	5.0121	332.34	0.1945
PROPANE	11.185	3.0826	282.07	0.1703
I-BUTANE	1.296	0.4239	42.24	0.0260
N-BUTANE	3.814	1.2026	124.71	0.0765
I-PENTANE	1.035	0.3787	41.51	0.0258
N-PENTANE	1.558	0.5643	62.60	0.0388
HEXANE PLUS	4.835	2.1095	248.57	0.1556
TOTAL	100.000	12.7737	1,707.38	1.0106

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0080
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,723.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,693.7
REAL SPECIFIC GRAVITY 1.0203

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,714.3
DRY BTU @ 14.696 1,719.7
DRY BTU @ 14.730 1,723.7
DRY BTU @ 15.025 1,758.2

CYLINDER # A002
CYLINDER PRESSURE 14 PSIG
DATE RUN 12/22/00
ANALYSIS RUN BY AMY JUSTICE

CQM, INC.

1427 W.AZTEC, BLVD. #3 AZTEC, NM 87410
505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 12:58:11
 Station #: 78-138 Sample Date: 06/13/2001
 Station Name: RUNWAY 10-G-1 Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met
 File: c:\mti\ezchrom\200\chrom\78_13806.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.082	0.000	0.010	
Methane	59.728	604.648	0.331	
CO2	0.074	0.000	0.001	
Ethane	18.511	328.328	0.192	4.951
H2S (approx)	0.000	0.000	0.000	
Propane	12.402	312.769	0.189	3.417
i-Butane	1.191	38.820	0.024	0.390
n-Butane	3.539	115.720	0.071	1.116
i-Pentane	0.926	37.134	0.023	0.335
n-Pentane	1.239	49.785	0.031	0.453
Hexanes	0.834	39.756	0.025	0.343
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.050	3.132	0.002	0.026

Ideal Total 100.000 1553.477 0.914 11.227
 Unnormalized Total 92.627

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)

Dry = 1563.024

Sat. = 1537.392

Actual = 1563.024

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.417

Butane GPM = 1.505

Gasoline GPM = 1.353

26# Gasoline GPM = 2.469

Total GPM = 11.227

Real Relative Density Calculated = 0.9190

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

CQM, INC. ON-SITE GAS ANALYSIS

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:53:04
 Station #: 78-148 Sample Date: 06/13/2001
 Station Name: SAGEEZIE/ANASAZI Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET
 File: c:\mti\ezchrom\200\chrom\78_14806.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.664	0.000	0.006	
Methane	44.440	449.882	0.246	
CO2	0.068	0.000	0.001	
Ethane	23.771	421.625	0.247	6.358
H2S (APPROX)	0.000	0.000	0.000	
Propane	17.469	440.554	0.266	4.814
i-Butane	2.367	77.151	0.048	0.774
n-Butane	5.635	184.256	0.113	1.777
i-Pentane	1.485	59.551	0.037	0.543
n-Pentane	1.729	69.474	0.043	0.626
Hexanes	1.947	92.812	0.058	0.801
Heptanes	0.378	20.848	0.013	0.174
Octanes	0.047	2.944	0.002	0.024
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1819.096	1.080	15.891
Unnormalized Total	113.650			

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)

Dry = 1835.446

Sat. = 1805.263

Actual = 1835.446

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 4.814

Butane GPM = 2.551

Gasoline GPM = 2.169

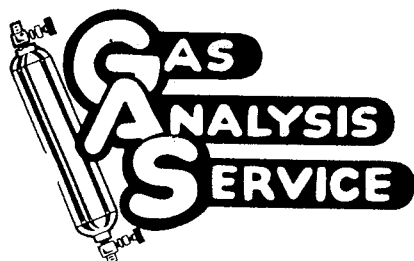
26# Gasoline GPM = 3.945

Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00012
CUST. NO. 33500- 10105

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	NAVAJO TRIBAL 32-26	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	30 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202A-52531	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.934	0.0000	0.00	0.0090
CO2	0.050	0.0000	0.00	0.0008
METHANE	71.878	0.0000	727.62	0.3981
ETHANE	15.057	4.0277	267.07	0.1563
PROPANE	6.531	1.7999	164.71	0.0994
I-BUTANE	0.770	0.2519	25.10	0.0155
N-BUTANE	1.958	0.6174	64.02	0.0393
I-PENTANE	0.510	0.1866	20.45	0.0127
N-PENTANE	0.663	0.2401	26.64	0.0165
HEXANE PLUS	1.649	0.7195	84.78	0.0531
TOTAL	100.000	7.8431	1,380.39	0.8007

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0046
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,387.6
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,363.5
REAL SPECIFIC GRAVITY		0.8049

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,380.1
DRY BTU @ 14.696	1,384.4
DRY BTU @ 14.730	1,387.6
DRY BTU @ 15.025	1,415.4

CYLINDER #	KFL148
CYLINDER PRESSURE	23 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE

CQM, INC. ON-SITE GAS ANALYSIS

WIT 2

1427 W. AZTEC BLVD. #3
AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:59:32
 Station #: 78-145 Sample Date: 06/13/2001
 Station Name: NT41-2 Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_14506.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.152	0.000	0.011	
Methane	56.788	574.886	0.315	
CO2	0.085	0.000	0.001	
Ethane	19.719	349.755	0.205	5.274
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.656	319.174	0.193	3.487
i-Butane	1.519	49.511	0.030	0.497
n-Butane	4.167	136.255	0.084	1.314
i-Pentane	1.029	41.265	0.026	0.377
n-Pentane	1.297	52.116	0.032	0.470
Hexanes	1.366	65.116	0.041	0.562
Heptanes	0.196	10.810	0.007	0.090
Octanes	0.026	1.628	0.001	0.013
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1600.514 0.945 12.084
 Unnormalized Total 110.907

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)

Dry = 1611.115

Sat. = 1584.681

Actual = 1611.115

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.487

Butane GPM = 1.811

Gasoline GPM = 1.512

26# Gasoline GPM = 2.826

Total GPM = 12.084

Real Relative Density Calculated = 0.9508

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9934

CQM, INC. ON-SITE GAS ANALYSIS

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

T 2

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:32:41
 Station #: 78-146 Sample Date: 06/14/2001
 Station Name: NT #23-13 Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET

File: c:\mti\ezchrom\200\chrom\78_14606.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.159	0.000	0.011	
Methane	56.655	573.539	0.314	
CO2	0.136	0.000	0.002	
Ethane	19.548	346.722	0.203	5.228
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.674	319.628	0.193	3.492
i-Butane	1.537	50.097	0.031	0.503
n-Butane	4.064	132.887	0.082	1.281
i-Pentane	0.965	38.698	0.024	0.353
n-Pentane	1.172	47.093	0.029	0.424
Hexanes	1.532	73.029	0.046	0.630
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.134	8.393	0.005	0.069
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1613.471	0.954	12.177
Unnormalized Total	107.575			

Gross BTU/Real Cu. Ft.
(@ 60 deg F, 14.730)

Dry = 1624.438

Sat. = 1597.782

Actual = 1624.438

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.492

Butane GPM = 1.784

Gasoline GPM = 1.672

26# Gasoline GPM = 2.953

Total GPM = 12.177

Real Relative Density Calculated = 0.9603

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00009
CUST. NO. 33500- 10085

WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.
WELL NAME MONUMENT 8N2
COUNTY/ STATE SAN JUAN UT
LOCATION ANETH
FIELD
FORMATION
CUST.STN.NO. 202E311589

SOURCE N/A
PRESSURE 12 PSIG
SAMPLE TEMP 55 DEG.F
WELL FLOWING Y
DATE SAMPLED 12/21/00
SAMPLED BY FGM
FOREMAN/ENGR. STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.139	0.0000	0.00	0.0110
CO2	0.064	0.0000	0.00	0.0010
METHANE	60.307	0.0000	610.49	0.3341
ETHANE	15.875	4.2466	281.57	0.1648
PROPANE	11.057	3.0473	278.85	0.1684
I-BUTANE	1.628	0.5325	53.06	0.0327
N-BUTANE	5.194	1.6377	169.83	0.1042
I-PENTANE	1.202	0.4398	48.20	0.0299
N-PENTANE	1.620	0.5868	65.09	0.0404
HEXANE PLUS	1.914	0.8351	98.40	0.0616
TOTAL	100.000	11.3257	1,605.49	0.9480

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

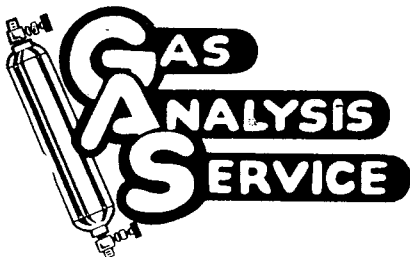
** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0067
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,617.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,589.2
REAL SPECIFIC GRAVITY 0.9551

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,608.5
DRY BTU @ 14.696 1,613.6
DRY BTU @ 14.730 1,617.3
DRY BTU @ 15.025 1,649.7

CYLINDER # 050
CYLINDER PRESSURE 15 PSIG
DATE RUN 12/22/00
ANALYSIS RUN BY AMY JUSTICE



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00010
CUST. NO. 33500- 10090

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
TOTAL	100.000	9.0934	1,470.45	0.8593

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5
DRY BTU @ 14.696	1,476.1
DRY BTU @ 14.730	1,479.5
DRY BTU @ 15.025	1,509.2

CYLINDER #	005
CYLINDER PRESSURE	22 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00008
CUST. NO. 33500- 10000

WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.
WELL NAME CAJON 8D1
COUNTY/STATE SAN JUAN UT
LOCATION ANETH
FIELD
FORMATION ISMAY
CUST.STN.NO. 202E311625

SOURCE N/A
PRESSURE 12 PSIG
SAMPLE TEMP 42 DEG.F
WELL FLOWING Y
DATE SAMPLED 12/21/00
SAMPLED BY FGM
FOREMAN/ENGR. STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.802	0.0000	0.00	0.0078
CO2	0.070	0.0000	0.00	0.0011
METHANE	58.781	0.0000	595.04	0.3256
ETHANE	18.008	4.8171	319.41	0.1870
PROPANE	12.630	3.4808	318.52	0.1923
I-BUTANE	1.567	0.5126	51.07	0.0314
N-BUTANE	4.747	1.4967	155.22	0.0953
I-PENTANE	0.925	0.3385	37.09	0.0230
N-PENTANE	1.207	0.4372	48.50	0.0301
HEXANE PLUS	1.263	0.5510	64.93	0.0406
TOTAL	100.000	11.6339	1,589.78	0.9341

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0065
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,600.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,573.0
REAL SPECIFIC GRAVITY 0.9408

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,592.1
DRY BTU @ 14.696 1,597.1
DRY BTU @ 14.730 1,600.8
DRY BTU @ 15.025 1,632.9

CYLINDER # AZT047
CYLINDER PRESSURE 15 PSIG
DATE RUN 12/26/00
ANALYSIS RUN BY AMY JUSTICE

CQM, INC. ON-SITE GAS ANALYSIS

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410

505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:36:40
 Station #: 78-144 Sample Date: 06/14/2001
 Station Name: MON/CAJON MESA Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S_1.MET

File: c:\mti\ezchrom\200\chrom\78_14406.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.989	0.000	0.010	
Methane	63.867	646.549	0.354	
CO2	0.044	0.000	0.001	
Ethane	15.724	278.896	0.163	4.205
H2S (APPROX)	0.000	0.000	0.000	
Propane	9.810	247.400	0.149	2.703
i-Butane	1.181	38.494	0.024	0.386
n-Butane	3.638	118.957	0.073	1.147
i-Pentane	0.900	36.091	0.022	0.329
n-Pentane	1.247	50.107	0.031	0.452
Hexanes	1.943	92.621	0.058	0.799
Heptanes	0.514	28.348	0.018	0.237
Octanes	0.143	8.957	0.006	0.073
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1546.420 0.908 10.332
 Unnormalized Total 108.337

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1555.948

Sat. = 1530.436

Actual = 1555.948

(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 2.703

Butane GPM = 1.533

Gasoline GPM = 1.890

26# Gasoline GPM = 3.037

Total GPM = 10.332

Real Relative Density Calculated = 0.9133

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939



2030 AFTON PLACE
FARMINGTON, N.M. 87401
(505) 325-6622

ANALYSIS NO. HSC00018
CUST. NO. 33500- 10035

WELL/LEASE INFORMATION

CUSTOMER NAME HARKEN SOUTHWEST CORP.
WELL NAME BIG SKY 6E
COUNTY/ STATE SAN JUAN UT
LOCATION ANETH
FIELD
FORMATION
CUST.STN.NO. 202E430640

SOURCE N/A
PRESSURE 17 PSIG
SAMPLE TEMP 21 DEG.F
WELL FLOWING Y
DATE SAMPLED 12/23/00
SAMPLED BY FGM
FOREMAN/ENGR. STEVEN J. MANSUR

REMARKS

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
TOTAL	100.000	9.0422	1,408.36	0.8260

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0048
BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,415.4
BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,390.8
REAL SPECIFIC GRAVITY 0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,407.7
DRY BTU @ 14.696 1,412.2
DRY BTU @ 14.730 1,415.4
DRY BTU @ 15.025 1,443.8

CYLINDER # 007
CYLINDER PRESSURE 17 PSIG
DATE RUN 12/28/00
ANALYSIS RUN BY GINA HANON

CQM, INC.

1427 W. AZTEC, BLVD. #3 AZTEC, NM 87410
505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 12:14:41
 Station #: 78-132 Sample Date: 06/13/2001
 Station Name: HILLSIDE 6-C *Big Sky* Flowing Pressure: 0 psig
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met
 File: c:\mti\ezchrom\200\chrom\78_13206.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.876	0.000	0.018	
Methane	65.826	666.381	0.365	
CO2	0.039	0.000	0.001	
Ethane	16.765	297.360	0.174	4.484
H2S (approx)	0.000	0.000	0.000	
Propane	9.827	247.829	0.150	2.708
i-Butane	0.865	28.194	0.017	0.283
n-Butane	2.514	82.204	0.050	0.793
i-Pentane	0.633	25.384	0.016	0.229
n-Pentane	0.787	31.623	0.020	0.288
Hexanes	0.689	32.844	0.021	0.283
Heptanes	0.166	9.155	0.006	0.077
Octanes	0.013	0.814	0.001	0.007

Ideal Total 100.000 1421.788 0.837 9.151
 Unnormalized Total 94.894

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)
 Dry = 1428.837
 Sat. = 1405.444
 Actual = 1428.837
 (0.000 lbs. water/MMCF)

Gasoline Content
 Propane GPM = 2.708
 Butane GPM = 1.076
 Gasoline GPM = 0.884
 26# Gasoline GPM = 1.676
 Total GPM = 9.151

Real Relative Density Calculated = 0.8408
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9951

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

☒ Well File _____

☐ Suspense _____

☐ Other _____

(Loc.) Sec _____ Twp _____ Rng _____

(Return Date) _____

(API No.) _____

(To-Initials) _____

1. Date of Phone Call: 9/12/01 Time: 9:50

2. DOGM Employee (name) Dustin Doucet (☐ Initiated Call)

Talked to:

Name Wayne Townsend (☐ Initiated Call) - Phone No. (505) 599 6359
of (Company/Organization) BLM

3. Topic of Conversation: Gas Flaring in Aneth area - bad western
Gas Resources Pipeline

4. Highlights of Conversation: Wayne has had several meetings with
Navajo Nation, Navajo EPA, Navajo minerals, Navajo Health and Human Services,
the Department of Justice, US EPA, Texaco, Exxon-Mobil, western Gas & the
Red Mesa & Aneth chapters. 12.5 miles of pipeline (downstream from
Aneth Plant) no good. Options: a) rebuild 12.5 miles of pipeline - Row expires
2005 western's renegotiate with Navajo to extend Row was denied [main choice] 1 month
to rebuild once OK given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - 1990]
c) Use 6" Coroco Line - convert to gas and truck liquids from plant - talks broke down 9/10/01.
Everyone in agreement to keep wells producing - some verbal complaints from public, nothing
in writing yet. Red Mesa & Aneth chapters wanted full shut-in. Current plan: EPA sending
letter today to flare gas thru plant (gas will be metered). The gas will be counted as
cost gas - no royalty due - because out of control of companies (producers). H₂S and other
safety monitors will be set up around plant and monitor health risks, etc. BLM
has approved all flaring until Oct. 15, 2001 associated w/ this matter. Probably
won't be back into operation before then though.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u>		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
2. NAME OF OPERATOR: RIM Southwest Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo
3. ADDRESS OF OPERATOR: P.O. Box 145 CITY Farmington STATE NM ZIP 87499		7. UNIT or CA AGREEMENT NAME: SEE ATTACHED
PHONE NUMBER: (505) 327-5531		8. WELL NAME and NUMBER: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		9. API NUMBER: SEE ATTACH
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEE ATTACHED		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Corporate Name Change
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.

RECEIVED

APR 27 2001

DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>W. J. Holcomb</u>	TITLE <u>Vice-President</u>
SIGNATURE <u>[Signature]</u>	DATE <u>4/23/2001</u>

(This space for State use only)

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

HARKEN Susan Herrera
 RIM SOUTHWEST CORPORATION
 C/O HOLCOMB OIL AND GAS, INC.
 PO BOX 2058
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER:

N9290

REPORT PERIOD (MONTH/YEAR):

02/2001

AMENDED REPORT ☐

(Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
NAVAJO TRIBAL 23-13			DSCR	P	OW	28	1,071	551	2,296
4303730971	09420	40S 24E 13							
NAVAJO TRIBAL 41-2			DSCR	P	OW	19	174	23	0
4303731041	09437	42S 24E 02							
NAVAJO TRIBAL 32-26			DSCR	P	OW	8	104	291	0
4303731060	09990	40S 22E 26							
NAVAJO TRIBAL 14-10			DSCR	P	OW	28	93	0	0
4303730977	10130	40S 24E 05							
SAHGZIE 1			DSCR	P	OW	28	1,025	476	0
4303731472	11032	42S 24E 05							
ANASAZI 1			DSCR	P	OW	28	1,308	1,349	0
4303731478	11042	42S 24E 05							
CAJON MESA 8D-1			DSCR	P	OW	27	245	355	61
4303731497	11074	40S 25E 08							
MONUMENT 8N-2			DSCR	P	OW	28	239	496	0
4303731509	11087	40S 25E 08							
RUNWAY 10G-1			DSCR	S	OW	28	1,412	1,613	432
4303731515	11105	40S 25E 10							
RUNWAY 10E-2			DSCR	S	GW	27	279	917	0
4303731550	11128	40S 25E 10							
MONUMENT 17E-2			DSCR	S	OW	26	157	548	0
4303731547	11139	40S 25E 17							
LONE MOUNTAIN CREEK 12F-1			DSCR	P	OW	22	149	533	12
4303731545	11148	42S 24E 12							
RUNWAY 10C-5A			DSCR	P	OW	24	221	899	40
4303731597	11152	40S 25E 10							
TOTALS							6477	8051	2841

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera
 Susan M. Herrera

RECEIVED

Telephone Number (505) 326-0550

APR 17 2001

DIVISION OF
OIL, GAS AND MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS

Susan Herrera
 RIM SOUTHWEST CORPORATION
 C/O HOLCOMB OIL AND GAS, INC.
 PO BOX 2058
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER:

N9290

REPORT PERIOD (MONTH/YEAR):

02/2001

AMENDED REPORT ☐

(Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes		
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)
✓ 4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36
✓ 4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0
✓ 4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0
✓ 4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0
✓ 4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73
✓ 4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0
✓ 4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0
✓ 4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0
✓ 4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120
✓ 4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0
✓ 4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0
✓ 4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0

TOTALS

4622

4101

229

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

Susan M. Herrera
 Susan M. Herrera

RECEIVED

Telephone Number

(505) 326-0550

APR 17 2001

DIVISION OF
 OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
RIM SOUTHWEST CORPORATION

3a. Address 87499
P.O. Box 145, Farmington, NM

3b. Phone No. (include area code)
(505) 327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.
See Attached

6. If Indian, Allottee or Tribe Name
Navajo Nation

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State
San Juan county
Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Vent/Flare
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Gas
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that RIM Southwest Corporation is requesting additional approval to continue to vent/flare gas from the attached wells until December 1, 2001 or until the Aneth plant is put back on line, whichever occurs first. Please reference our previous sundry notice dated 8/29/01 which gave approval for this action through October 15, 2001.

Attachment
Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 11/19/01

By: [Signature]

Dec 1, 2001

COPY SENT TO OPERATOR
Date: 11/19/01
Initials: [Signature]

Federal Approval of This
Action Is Necessary

cc: State of Utah
Navajo Nation-Minerals
Navajo Nation EPA-Air
Quality
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

W. J. Holcomb

Title Vice President

Signature

[Signature]

Date 11/01/01

RECEIVED

NOV 09 2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

DIVISION OF
OIL, GAS AND MINING

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RIM SOUTHWEST CORPORATION

			ESTIMATED GAS	
			VENTED	
LEASE NUMBER	WELL NAME	SEC-TWN-RNG	MCF/DAY	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
		TOTAL AVERAGE	254	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FILE

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3a. Address

87499

P.O. Box 145, Farmington, NM

3b. Phone No. (include area code)

(505) 327-5531

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan County
Utah

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Flare Gas</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that as of approximately 3:00 p.m. Thursday, November 15, 2001 the attached wells were put back on line for gas sales through the Aneth pipeline/plant.

CC: State of Utah

Navajo Nation-Minerals
Navajo Nation EPA - Air Quality
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

W. J. Holcomb

Title Vice President

Signature

Date 11/19/01

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

RECEIVED

Approved by

Title

NOV 23 2001

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

DIVISION OF
OIL, GAS AND MINING

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RIM SOUTHWEST CORPORATION

			ESTIMATED GAS	
			VENTED	
LEASE NUMBER	WELL NAME	SEC-TWN-RNG	MCF/DAY	
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
	TOTAL AVERAGE		254	

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

12/1/2000

FROM: (Old Operator):
 N9290-Harken Southwest Corporation
 5 Inverness Drive, East
 Denver, CO 80112

Phone: (303) 799-9828

TO: (New Operator):
 N1715-Rim Southwest Corporation
 PO Box 145
 Farmington, NM 87499

Phone: (505) 327-5531

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	220E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	230E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	240E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	250E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	250E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	250E	4303731714	11722	Indian	OW	P

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on:

4/27/2001

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on:

4/27/2001

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on:

6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143

5. If **NO**, the operator was contacted on: _____

6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not given

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 8/26/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003

3. Bond information entered in RBDMS on: n/a

4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: n/a

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: n/a

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: RLB0001937

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

2. The **FORMER** operator has requested a release of liability from their bond on: n/a
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

Because this was a merger, all LA and PA wells belong to Rim Southwest also. However, they are still on our computer as Harken Southwest because no list was provided to move them.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NOG-8707-1231
2. Name of Operator RIM Southwest Corporation		6. If Indian, Allottee, or Tribe Name Navajo Nation
3a. Address 5 Inverness Drive East, Englewood CO 80112	3b. Phone No. (include area code) (303) 799-9828	7. If Unit or CA. Agreement Designation NA
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2170' FNL & 1390' FEL SW NE sev 31 T41S R		8. Well Name and No. Jack G #31
		9. API Well No. 43-037-31709
		10. Field and Pool, or Exploratory Area Aneth
		11. County or Parish, State San Juan Co., Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input checked="" type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

- 1) MIRU Sevice Rig.
- 2) POOH w/ Rod and pump. POOH with tubing
- 3) PU 4 3/4" Bit. Drill out to 5850'.
- 4) Perforate 5802 - 5804 w/ 4 spf.
- 5) TIH w/ CICR to 5790.
- 6) Sqz. w/ 25 sxs Micro Matrix Cmt. & 50 sxs. Cls "G" & 25 sxs Cls "G" w/ 2%CaCl2.
- 7) If 1000 psi sqz. pressure is not achieved squeeze again w/ 50 sxs Cls G & 50 sxs. Cls "G" W/ 2% CaCl2.
- 8) Wait on cement 48 hrs.
- 9) PU 4 3/4" Bit & casing scraper. Clean out to 5790'.
- 10) POOH
- 11) PU Pumping assembly and put well back on pump.

Expect to start recompleat end of April or first part of May, 2004

RECEIVED

MAR 18 2004

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

Kenneth J. Kundrik

Title

Operations Engineer

Signature

Kenneth J. Kundrik

Date

1/11/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

COPY SENT TO OPERATOR
Date: 3-31-04

Title

Accepted by the
Utah Division of
Oil, Gas and Mining

Date

Federal Approval Of This
Action Is Necessary

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1242, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instruction 1001-1)

By: *[Signature]*

WELL: Jack # 31-G COUNTY: San Juan / API #: 43-037-31709
 FIELD: Aneth STATE: UT SPUD DATE: 5-20-92
 FORMATION: Desert Creek LOCATION: SWNE, Sec. 31, T41S-R24E
 TD: 5,933' PBTD: 5,810' ELEVATION: GL= 4,924', KB= 4,937'

CASING RECORD

SURFACE CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	LT&C	Surface	529'	12	12-1/4"	370	Surface

PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5,927'	142	7-7/8"	1st Stg=602 2nd Stg=937	Unknown Unknown

LINER

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2-7/8"	6.5#	J-55	8 rd	Surface			4-3/4"

PERFORATION RECORD

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
06/07/92	5,817'	5,829'	4 jsfp	D. Creek	Isolated
06/07/92	5,742'	5,759'	4 jsfp	D. Creek	Open
06/07/92	5,735'	5,737'	4 jsfp	D. Creek	Open
11/17/97	5,804'	5,806'	4 jsfp	D. Creek	Squeezed

TREATMENT

<< See attached sheet for completion and workover history. >>

REMARKS

Tubing Detail	Rod Detail
184 Jts. of 2-7/8", 6.5#/ft J-55 EUE 8rd Tbg.	87 - 7/8" Rods 2,175.00 ft.
TAC @ 5,682'	143 - 3/4" Rods 3,575.00 ft.
2 Jts. of Tbg. A.A.	Total: 5,750.00 ft.
SN @ 5,749'	
4 ft. perf'd sub	
BPMA, EOT @ 5,786'	Pump: 2-1/2" x 1-3/4" x 22" RHAC
Surface Location: 2,170' FNL - 1,390' FEL	
Lease #: NOG 8707-1231 / Navajo Tribal	

MISCELLANEOUS

RIM Wt%:	
BHT:	
BHP:	
EST SITP:	
LOGS:	

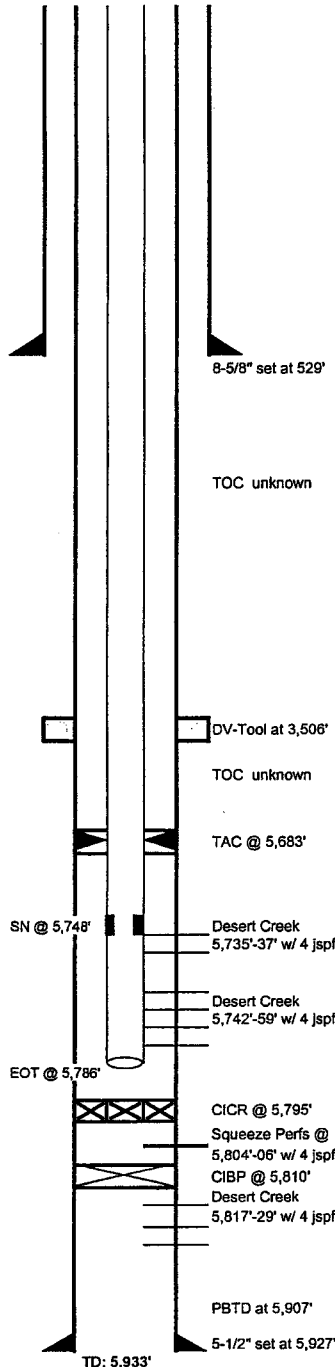
CAPACITIES

Tubular Cap.	Bbl/ft	Ft3/ft
Tubing	0.00579	0.03250
Casing (15.5 #/ft)	0.02380	0.13360
Annular Cap.	Bbl/ft	Ft3/ft
Tbg x Csg (15.5 #/ft)	0.01580	0.08860
Csg x Open Hole	0.03090	0.17320

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: KJK
 Date: 05/01/01
 Updated: 03/15/04



WELL: Jack # 31-G	COUNTY: San Juan / API #: 43-037-31709
FIELD: Aneth	STATE: UT SPUD DATE: 5-20-92
FORMATION: Desert Creek	LOCATION: SWNE, Sec. 31, T41S-R24E
TD: 5,933' PBTD: 5,810'	ELEVATION: GL= 4,924', KB= 4,937'

Date	Description
06/01/92	MIRU completion rig. Tested casing to 2,000 psi. Drilled out DV-tool @ 3,506'. Cleaned out to PBTD of 5,907' (FC). CBL showed evidence of micro-annulus. Perforated from 5,735'-37', 5,742'-59' & 5,817'-29'. FL dropped 100' after perforating. Well was flowing on TIH with PIP tool. Acidized all perforations with 3,100 gall. Of 28% HCL using 2 ft. spacing on the PIP tool. Acidized at 2 bpm and low pressures (vacuum to 500 psi). TOOH with PIP tool. TIH with RBP & Pkr. Set RBP @ 5,845' & packer @ 5,780'. Acidize the Lower interval; with 4,800 gall. Of 15% Gelled HCL acid @ 6 bpm & 2,650 psi (max). ISIP=1,400 psi, 2 min = vacuum. Swab tested at 318 bfpd with a 13% oilcut and a swabbing FL of 3,800' (rate after load recovery). Reset RBP @ 5,790', and packer at 5,730'. Acidize perms from 5,735'-59' at 7.5 bpm and 2,400 to 2,700 psi with 7,600 gall. Of gelled 15% HCL. Swab tested zone and it kicked off and flowed (100% oil). TOOH with RBP & packer. RIH and set a CIBP at 5,810'. TIH and set packer at 5,725'. Run two week PBU. BHP=1446 psi. Flow tested well, would not flow continually, put well on rod pump.
11/08/93	Pump change.
Feb. 1996	Shot FL @ 3,553', SN @ 5,768'.
05/28/96	MIRU workover rig. POOH with rods & pump. Release TAC, TOOH with tbg. Made bit & scraper run, tagged CIBP @ 5,810'. Acidized perms using a PIP tool on 1 ft spacing with 7-1/2% PAD acid + Xylene. 1.5 bpm @ 1,700 psi. Return well to production.
Aug. 1996	Shot FL @ 4,923'.
Feb. 1997	Well not pumping. TOOH with tubing, run bit and scraper. Pump hot FW + salt inhibitor. RTP.
05/01/97	Pump change.
Sep. 1997	Pump change.
Nov. 1997	POOH with pump & rods. TOOH with tbg. Ran GR/CCL correlation log. Perforate 5,804'-06' w/ 4 jsp (8 holes). TIH and set CICR @ 5,795'. Establish injection rate of 5 bpm @ 0 psi. Squeezed with 50 sx. Of Class "G". Max. squeeze pressure of 600 psi. Per SJM (who supervised job), never really obtained a squeeze. Returned well to production, no change in water production.
Aug. 1998	Pump change / swabbed well. Well was shut-in due to high SWD costs & low oil price.

RIM Southwest Corporation
5 Inverness Drive East
Englewood, Colorado 80112
(303) 799-9828 ext. # 303
(303) 799-4259 (fax)

March 15, 2004


Mr. Stephen Mason
United States Department of the Interior
Bureau of Land Management
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Re: Notice of Intent to Rework
Jack G 31 SE NE sec 31 T 41S R 24E
San Juan Co., Utah

Dear Mr. Mason:

Please find enclosed the Notice of Intent to rework the above well. We wish to rework this well in late April or early May, 2004. If you have, any question or concerns do not hesitate to contact the undersigned. Thank you.

Sincerely,



Kenneth J Kundrik
Operations Engineer

CC: BIA Window Rock,
Navajo Nation Minerals Department, Akhtar Zaman Director

Utah Division Oil & Gas & Mining

RECEIVED
MAR 18 2004
DIV. OF OIL, GAS & MINING

RIM Southwest Corporation
5 Inverness Drive East
Englewood, Colorado 80112
(303) 799-9828 ext. # 303
(303) 799-4259 (fax)

April 16, 2004

Mr. Stephen Mason
United States Department of the Interior
Bureau of Land Management
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Re: Notice of Intent to P&A
Jack G 31 SE NE sec 31 T 41S R 24E
San Juan Co., Utah

Dear Mr. Mason:

Please find enclosed the Notice of Intent to P&A the above well. We have received verbal approval from Jim Lovato at the Farmington, BLM office to conduct this work. If you have, any question or concerns do not hesitate to contact the undersigned. Thank you.

Sincerely,



Kenneth J Kundrik
Operations Engineer

RECEIVED

APR 19 2004

DIV. OF OIL, GAS & MINING

CC: BIA Window Rock,
Navajo Nation Minerals Department, Akhtar Zaman Director

Utah Division Oil & Gas & Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
RIM Southwest Corporation

3a. Address
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)
(303) 799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2170' FNL & 1390' FEL SW NE sec 31 T41S R24E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompletable horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletable in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

- 1) MIRU Sevice Rig.
- 2) Lay down rods & pump. Roll hole to produced water.
- 3) Set cement plugs as follows.
 - a) Plug #1 - 5400' - 5300' (17 sxs. Cls "B" Cmt. (3.6 bbls)).
 - b) Plug #2 - (Hermosa 4695') Perforate 4745' 4745' - 4645' (46.5 sxs Cls "B" Cmt. (8.8 bbls)) Sqz. 29.5 sxs (5.2 bbls) behind pipe.)
 - c) Plug #3 - (Dechelly 2745') 2795' - 2695' (17 sxs Cls "B" Cmt. (3.6 bbls))
 - d) Plug #4 - (Chinle 1606') 1656' - 1556' (17 sxs Cls "B" Cmt. (3.6 bbls))
 - e) Plug #5 - (Base Surface casing 529') 579' - 479' (17 sxs. Cls. "B" (3.6 bbls))
 - d) Plug #6 - (Surface) 100' to Surface. (11.5 sxs Cls "B" Cmt.)
- 4) Cut of well head minimum 3 ft. below Grd. Level.
- 5) Erect dry hole marker, with API Number, Well Name, Location, & Operator clearly indicated.
- 6) Reclaim location.

RECEIVED
APR 19 2004

14. I hereby certify that the foregoing is true and correct.
Name (Printed/ Typed)

Kenneth J. Kundrik

COPY SENT TO OPERATOR

DATE: 5-11-04
INITIALS: CBO

Title Operations Engineer

Signature

Kenneth J. Kundrik

Date

4/16/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval of This
Action Is Necessary

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any statement or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

By: [Signature]

WELL: Jack # 31-G COUNTY: San Juan / API #: 43-037-31709
 FIELD: Aneth STATE: UT SPUD DATE: 5-20-92
 FORMATION: Desert Creek LOCATION: SWNE, Sec. 31, T41S-R24E
 TD: 5,933' PBTD: 5,810' ELEVATION: GL= 4,924', KB= 4,937'

CASING RECORD

SURFACE CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	LT&C	Surface	529'	12	12-1/4"	370	Surface

PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5,927'	142	7-7/8"	1st Stg=602	Unknown
								2nd Stg=937'	surface

LINER

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2-7/8"	6.5#	J-55	8 rd	Surface			4-3/4"

PERFORATION RECORD

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
06/07/92	5,817'	5,829'	4 jsfp	D. Creek	Isolated
06/07/92	5,742'	5,759'	4 jsfp	D. Creek	Open
06/07/92	5,735'	5,737'	4 jsfp	D. Creek	Open
11/17/97	5,804'	5,806'	4 jsfp	D. Creek	Squeezed

TREATMENT

<< See attached sheet for completion and workover history. >>

REMARKS

Tubing Detail 184 Jts. of 2-7/8", 6.5#/ft J-55 EUE 8rd Tbg. TAC @ 5,682' 2 Jts. of Tbg, A.A. SN @ 5,749' 4 ft. perf'd sub BPMA, EOT @ 5,786'	Rod Detail 87 - 7/8" Rods 2,175.00 ft. 143 - 3/4" Rods 3,575.00 ft. Total: 5,750.00 ft. Pump: 2-1/2" x 1-3/4" x 22' RHAC
Surface Location: 2,170' FNL - 1,390' FEL	
Lease #: NOG 8707-1231 / Navajo Tribal	

8-5/8" set at 529'

DV-Tool at 3,506'

TOC unknown

Cut off 2 7/8" tbg @ 5400'
100% stuck @ 5435'
Cleaned out w/ Wash over pipe to 5465'

Desert Creek
5,735'-37' w/ 4 jsfp

Desert Creek
5,742'-59' w/ 4 jsfp

CICR @ 5,780'
Sqz Perf 5788-5792'

CICR @ 5,795'

Squeeze Perfs @
5,804'-06' w/ 4 jsfp

CIBP @ 5,810'

Desert Creek
5,817'-29' w/ 4 jsfp

PBTD at 5,907'

5-1/2" set at 5,927'

TD: 5,933'

MISCELLANEOUS

RIM Wt%:	
BHT:	
BHP:	
EST SITP:	
LOGS:	

CAPACITIES

Tubular Cap.	Bbl/ft	Ft3/ft
Tubing	0.00579	0.03250
Casing (15.5 #/ft)	0.02380	0.13360
Annular Cap.	Bbl/ft	Ft3/ft
Tbg x Csg (15.5 #/ft)	0.01580	0.08860
Csg x Open Hole	0.03090	0.17320

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: KJK
 Date: 05/01/01
 Updated: 04/16/04

WELL: Jack # 31-G	COUNTY: San Juan / API #: 43-037-31709
FIELD: Aneth	STATE: UT SPUD DATE: 5-20-92
FORMATION: Desert Creek	LOCATION: SWNE, Sec. 31, T41S-R24E
TD: 5,933' PBTD: 5,810'	ELEVATION: GL= 4,924', KB= 4,937'

Date	Description
06/01/92	MIRU completion rig. Tested casing to 2,000 psi. Drilled out DV-tool @ 3,506'. Cleaned out to PBTD of 5,907' (FC). CBL showed evidence of micro-annulus. Perforated from 5,735'-37', 5,742'-59' & 5,817'-29'. FL dropped 100' after perforating. Well was flowing on TIH with PIP tool. Acidized all perforations with 3,100 gall. Of 28% HCL using 2 ft. spacing on the PIP tool. Acidized at 2 bpm and low pressures (vacuum to 500 psi). TOOH with PIP tool. TIH with RBP & Pkr. Set RBP @ 5,845' & packer @ 5,780'. Acidize the Lower interval; with 4,800 gall. Of 15% Gelled HCL acid @ 6 bpm & 2,650 psi (max). ISIP=1,400 psi, 2 min = vacuum. Swab tested at 318 bfpd with a 13% oilcut and a swabbing FL of 3,800' (rate after load recovery). Reset RBP @ 5,790', and packer at 5,730'. Acidize perfs from 5,735'-59' at 7.5 bpm and 2,400 to 2,700 psi with 7,600 gall. Of gelled 15% HCL. Swab tested zone and it kicked off and flowed (100% oil). TOOH with RBP & packer. RIH and set a CIBP at 5,810'. TIH and set packer at 5,725'. Run two week PBU. BHP=1446 psi. Flow tested well, would not flow continually, put well on rod pump.
11/08/93	Pump change.
Feb. 1996	Shot FL @ 3,553', SN @ 5,768'.
05/28/96	MIRU workover rig. POOH with rods & pump. Release TAC, TOOH with tbg. Made bit & scraper run, tagged CIBP @ 5,810'. Acidized perfs using a PIP tool on 1 ft spacing with 7-1/2% PAD acid + Xylene. 1.5 bpm @ 1,700 psi. Return well to production.
Aug. 1996	Shot FL @ 4,923'.
Feb. 1997	Well not pumping. TOOH with tubing, run bit and scraper. Pump hot FW + salt inhibitor. RTP.
05/01/97	Pump change.
Sep. 1997	Pump change.
Nov. 1997	POOH with pump & rods. TOOH with tbg. Ran GR/CCL correlation log. Perforate 5,804'-06' w/ 4 jsfp (8 holes). TIH and set CICR @ 5,795'. Establish injection rate of 5 bpm @ 0 psi. Squeezed with 50 sx. Of Class "G". Max. squeeze pressure of 600 psi. Per SJM (who supervised job), never really obtained a squeeze. Returned well to production, no change in water production.
Aug. 1998	Pump change / swabbed well. Well was shut-in due to high SWD costs & low oil price.
March, 2004	Attempt to Sqz. to return to Production. Perf 5788'-5792' Set retainer 5780' Sqz. With 100 sxs. No pressure over Displace with 5 bbls. Water. Sqz. w/ 50 sxs Cls "B" & 2% CaCL2. unable to sting out of retainer. Cement in casing up to 5412'. Attempt to clean out with wash over pipe unable to make any hole tubing laying against casing.

RIM Southwest Corporation
5 Inverness Drive East
Englewood, Colorado 80112
(303) 799-9828 ext. # 303
(303) 799-4259 (fax)

May 3, 2004

Mr. Stephen Mason
United States Department of the Interior
Bureau of Land Management
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Re: Subsequent Notice of Intent to P&A
Jack G 31
SE NE sec 31 T 41S R 24E
San Juan Co., Utah

Dear Mr. Mason:

Please find enclosed the Subsequent Notice of Intent to P&A the above well. If you have, any question or concerns do not hesitate to contact the undersigned. Thank you.

Sincerely,



Kenneth J Kundrik
Operations Engineer

CC: BIA Window Rock,
Navajo Nation Minerals Department, Akhtar Zaman Director
Utah Division Oil & Gas & Mining

RECEIVED
MAY 05 2004
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator RIM Southwest Corporation	
3a. Address 5 Inverness Drive East, Englewood CO 80112	3b. Phone No. (include area code) (303) 799-9828
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2170' FNL & 1390' FEL SW NE sec 31 T41S R24E	

FORM APPROVED OMB No. 1004-0135 Expires: January 31, 2004	
5. Lease Serial No. NOG-8707-1231	
6. If Indian, Allottee, or Tribe Name Navajo Nation	
7. If Unit or CA. Agreement Designation NA	
8. Well Name and No. 3/G Jack G-#31	
9. API Well No. 43-037-31709	
10. Field and Pool, or Exploratory Area Aneth	
11. County or Parish, State San Juan Co., Utah	

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)
- 1) MIRU Sevice Rig Bobby Higgines Well Service 4/7/04.
 - 2) Lay down rods & pump. POOH w/ TBG.. PU Bit & Casing scraper. TIH Tag CICR @ 5797'. POOH
 - 3) Perforate casing 5788 - 5792' w/ 16 shots. POOH w/ Wireline. PU Packer RIH set packer at 5725'. Tested csg. to 1000 psi. OK. Unseat packer reset packer at 5780' pumped down tubing casing blowing.
 - 4) POOH w/ packer. RIH w/ CICR set CICR @ 5780'. Pumped 5.3 bbls (25 sxs.) Micro Matrix Cement, Yield: 1.19 & 10.5 bbls (50 sxs) Fluid Loss Slurry, Yield: 1.18 Weight 15.6 #/gal. and 5.3 bbls (25 sxs) Neat Cement w/ 2% CaCl2 Yield: 1.18 Weight 15.6#/gal. displaced w/ 33 bbls fresh water. Well on vaccum overdisplaced w/ 5 bbls fresh water.
 - 5) Pull out of retainer to 3752'
 - 6) Well dead Stung into CICR @ 5780'. Pumped into formation at 4 bbls/min with pressure at 2 bbls/ min no press.
 - 7) Mixed and pumped 10.5 bbls (50 sxs.) Neat Cement w/ 2% CaCl2 no pressure. Displaced with 35.5 bbls water. No pressure unable to sting out of retainer. Pumped 50 bbls water down casing prssured ot 1000 psi.
 - 8) Ran free point tubing stuck at 5412'. Chemical Cut at 5400'. POOH w/ 171 jts & 15' Stub.
 - 9) PU mill shoe, 7 jts wash over pipe, 4 drill collars and RIH tagged 5393' washed to 5408' drilled to 5432'. SDFN
(SEE ATTACHED SHEET)

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed)

Kenneth J. Kundrik

Title

Operations Engineer

Signature

Kenneth J. Kundrik

Date

5/1/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

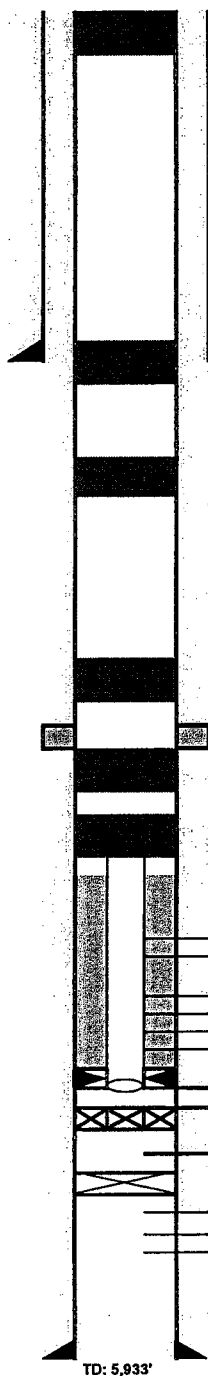
Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

(Work Continuation)

- 10) Drilled 5432' to 5440'. Quit making hole POOH Mill worn out. Made up new tools and changed out swivel.
- 11) Drilled 5440' to 5465'. Quit making hole circulating iron up.
- 12) POOH lay down Wash Over Pipe. RIH with tubing lay down rods.
- 13) RU cementer Key Pressure Pumping Services
- 14) Set Plugs as follows:
 - a) Pumped 17 sxs. Cls "B" cmt Yield 1.18 Plug from 5400' to 5300' w/ 50% excess.
 - b) Perforated 4745' w/ 4 shots. Pressure up to 1000 psi could not get rate.
 - c) Pumped 17 sxs Cls "B" cmt. Yield 1.18 Plug from 4745' to 4645' w/ 50 % excess.
 - c) Pumped 17 sxs Cls "B" cmt. Yield 1.18 Plug from 2795' to 2695' w/ 50 % excess.
 - c) Pumped 17 sxs Cls "B" cmt. Yield 1.18 Plug from 1656' to 1556' w/ 50 % excess.
 - c) Pumped 17 sxs Cls "B" cmt. Yield 1.18 Plug from 579' to 479' w/ 50 % excess.
 - d) Pumped 15 sxs Cls "B" cmt Yield 1.18 Plug from 100' to surface.
- 15) Cut off well head 3 ft. below ground level and erect Dry Hole maker with Legal Location, Operator, API Number , and Well Name indicated.



Top Plug 100' to surface

WELL: Jack # 31-G	COUNTY: San Juan / API #: 43-037-31709
FIELD: Aneth	STATE: UT SPUD DATE: 5-20-92
FORMATION: Desert Creek	LOCATION: SWNE, Sec. 31, T41S-R24E
TD: 5,933'	PBD: 5,810' ELEVATION: GL= 4,924', KB= 4,937'

CASING RECORD									
SURFACE CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	LT&C	Surface	529'	12	12-1/4"	370	Surface

PRODUCTION CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5,927'	142	7-7/8"	1st Stg=602	Unknown
								2nd Stg=937'	surface

8-5/8" set at 529'
Plug #5 579' - 479' with 50% excess

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

Plug #4 1656' - 1556'
w/ 50% excess

TUBING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.		
2-7/8"	6.5#	J-55	8 rd	Surface				4-3/4"	

Plug #3 2795' - 2695' w/ 50% excess

PERFORATION RECORD						
DATE	TOP	BOTTOM	SPF	ZONE	STATUS	
06/07/92	5,817'	5,829'	4 jspf	D. Creek	Isolated	
06/07/92	5,742'	5,759'	4 jspf	D. Creek	Open	
06/07/92	5,735'	5,737'	4 jspf	D. Creek	Open	
11/17/97	5,804'	5,806'	4 jspf	D. Creek	Squeezed	

DV-Tool at 3,506'

Plug #2 4745' - 4645' w/ 50% excess
TOC unknown
Plug #1 5400' - 5300' w/ 50% excess
Cut off 2 7/8" tbg @ 5400'
100% stuck @ 5435'
Cleaned out w/ Wash over pipe to 5465'

Desert Creek
5,735'-37' w/ 4 jspf

Desert Creek
5,742'-59' w/ 4 jspf

CICR @ 5,780'
Sqz Perf 5788-5792'
CICR @ 5,795'
Squeeze Perfs @
5,804'-06' w/ 4 jspf
CIBP @ 5,810'
Desert Creek
5,817'-29' w/ 4 jspf

PBD at 5,907'
5-1/2" set at 5,927'

TD: 5,933'

TREATMENT

<< See attached sheet for completion and workover history. >>

REMARKS

<u>Tubing Detail</u>	<u>Rod Detail</u>
184 Jts. of 2-7/8", 6.5#/ft J-55 EUE 8rd Tbg.	87 - 7/8" Rods 2,175.00 ft.
TAC @ 5,682'	143 - 3/4" Rods 3,575.00 ft.
2 Jts. of Tbg, A.A.	Total: 5,750.00 ft.
SN @ 5,749'	
4 ft. perf'd sub	
BPMA, EOT @ 5,786'	Pump: 2-1/2" x 1-3/4" x 22' RHAC
Surface Location: 2,170' FNL - 1,390' FEL	
Lease #: NOG 8707-1231 / Navajo Tribal	

MISCELLANEOUS

RIM Wt%:	
BHT:	
BHP:	
EST SITP:	
LOGS:	

CAPACITIES

Tubular Cap.	Bbl/ft	Ft3/ft
Tubing	0.00579	0.03250
Casing (15.5 #/ft)	0.02380	0.13360
Annular Cap.	Bbl/ft	Ft3/ft
Tbg x Csg (15.5 #/ft)	0.01580	0.08860
Csg x Open Hole	0.03090	0.17320

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: KJK
Date: 05/01/01
Updated: 05/03/04

WELL: Jack # 31-G	COUNTY: San Juan / API #: 43-037-31709
FIELD: Aneth	STATE: UT SPUD DATE: 5-20-92
FORMATION: Desert Creek	LOCATION: SWNE, Sec. 31, T41S-R24E
TD: 5,933' PBTD: 5,810'	ELEVATION: GL= 4,924', KB= 4,937'

Date	Description
06/01/92	MIRU completion rig. Tested casing to 2,000 psi. Drilled out DV-tool @ 3,506'. Cleaned out to PBTD of 5,907' (FC). CBL showed evidence of micro-annulus. Perforated from 5,735'-37', 5,742'-59' & 5,817'-29'. FL dropped 100' after perforating. Well was flowing on TIH with PIP tool. Acidized all perforations with 3,100 gall. Of 28% HCL using 2 ft. spacing on the PIP tool. Acidized at 2 bpm and low pressures (vacuum to 500 psi). TOOH with PIP tool. TIH with RBP & Pkr. Set RBP @ 5,845' & packer @ 5,780'. Acidize the Lower interval; with 4,800 gall. Of 15% Gelled HCL acid @ 6 bpm & 2,650 psi (max). ISIP=1,400 psi, 2 min = vacuum. Swab tested at 318 bfpd with a 13% oilcut and a swabbing FL of 3,800' (rate after load recovery). Reset RBP @ 5,790', and packer at 5,730'. Acidize perms from 5,735'-59' at 7.5 bpm and 2,400 to 2,700 psi with 7,600 gall. Of gelled 15% HCL. Swab tested zone and it kicked off and flowed (100% oil). TOOH with RBP & packer. RIH and set a CIBP at 5,810'. TIH and set packer at 5,725'. Run two week PBU. BHP=1446 psi. Flow tested well, would not flow continually, put well on rod pump.
11/08/93	Pump change.
Feb. 1996	Shot FL @ 3,553', SN @ 5,768'.
05/28/96	MIRU workover rig. POOH with rods & pump. Release TAC, TOOH with tbq. Made bit & scraper run, tagged CIBP @ 5,810'. Acidized perms using a PIP tool on 1 ft spacing with 7-1/2% PAD acid + Xylene. 1.5 bpm @ 1,700 psi. Return well to production.
Aug. 1996	Shot FL @ 4,923'.
Feb. 1997	Well not pumping. TOOH with tubing, run bit and scraper. Pump hot FW + salt inhibitor. RTP.
05/01/97	Pump change.
Sep. 1997	Pump change.
Nov. 1997	POOH with pump & rods. TOOH with tbq. Ran GR/CCL correlation log. Perforate 5,804'-06' w/ 4 jspf (8 holes). TIH and set CIBP @ 5,795'. Establish injection rate of 5 bpm @ 0 psi. Squeezed with 50 sx. Of Class "G". Max. squeeze pressure of 600 psi. Per SJM (who supervised job), never really obtained a squeeze. Returned well to production, no change in water production.
Aug. 1998	Pump change / swabbed well. Well was shut-in due to high SWD costs & low oil price.
March, 2004	Attempt to Sqz. to return to Production. Perf 5788'-5792' Set retainer 5780' Sqz. With 100 sxs. No pressure over Displace with 5 bbls. Water. Sqz. w/ 50 sxs Cls "B" & 2% CaCL2. unable to sting out of retainer. Cement in casing up to 5412'. Attempt to clean out with wash over pipe unable to make any hole tubing laying against casing.
04/19/04	Well P&A'd

RIM Southwest Corporation
5 Inverness Drive East
Englewood, Colorado 80112
(303) 799-9828 ext. # 303
(303) 799-4259 (fax)

May 3, 2004

Mr. Stephen Mason
United States Department of the Interior
Bureau of Land Management
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

Re: Subsequent Notice of Intent to P&A
Jack G 31
SE NE sec 31 T 41S R 24E
San Juan Co., Utah

Dear Mr. Mason:

Please find enclosed revised Subsequent Notice of Intent to P&A the above well with the revisions we discussed. If you have, any question or concerns do not hesitate to contact the undersigned. Thank you.

Sincerely,



Kenneth J Kundrik
Operations Engineer

RECEIVED
MAY 07 2004
DIV. OF OIL, GAS & MINING

CC: BIA Window Rock,
Navajo Nation Minerals Department, Akhtar Zaman Director

Utah Division Oil & Gas & Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
RIM Southwest Corporation

3a. Address
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)
(303) 799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2170' FNL & 1390' FEL SW NE sec 31 T41S R24E

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

5. Lease Serial No.
NOG-8707-1231

6. If Indian, Allottee, or Tribe Name
Navajo Nation

7. If Unit or CA. Agreement Designation
NA

8. Well Name and No.

Jack G #31 31G

9. API Well No.
43-037-31709

10. Field and Pool, or Exploratory Area
Aneth

11. County or Parish, State
San Juan Co., Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

Revised 5/4/2004

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

- 1) MIRU Sevice Rig Bobby Higgines Well Service 4/7/04.
 - 2) Lay down rods & pump. POOH w/ TBG.. PU Bit & Casing scraper. TIH Tag CICR @ 5797'. POOH
 - 3) Perforate casing 5788 - 5792' w/ 16 shots. POOH w/ Wireline. PU Packer RIH set packer at 5725'. Tested csg. to 1000 psi. OK. Unseat packer reset packer at 5780' pumped down tubing casing blowing.
 - 4) POOH w/ packer. RIH w/ CICR set CICR @ 5780'. Pumped 5.3 bbls (25 sxs.) Micro Matrix Cement, Yield: 1.19 & 10.5 bbls (50 sxs) Fluid Loss Slurry, Yield: 1.18 Weight 15.6 #/gal. and 5.3 bbls (25 sxs) Neat Cement w/ 2% CaCL2 Yield: 1.18 Weight 15.6#/gal. displaced w/ 33 bbls fresh water. Well on vaccum overdisplaced w/ 5 bbls fresh water.
 - 5) Pull out of retainer to 3752'
 - 6) Well dead Stung into CICR @ 5780'. Pumped into formation at 4 bbls/min with pressure at 2 bbls/ min no press.
 - 7) Mixed and pumped 10.5 bbls (50 sxs.) Neat Cement w/ 2% CaCl2 no pressure. Displaced with 35.5 bbls water. No pressure unable to sting out of retainer. Pumped 50 bbls water down casing prssured ot 1000 psi.
 - 8) Ran free point tubing stuck at 5412'. Chemical Cut at 5400'. POOH w/ 171 jts & 15' Stub.
 - 9) PU mill shoe, 7 jts wash over pipe, 4 drill collars and RIH tagged 5393' washed to 5408' drilled to 5432'. SDFN
- (SEE ATTACHED SHEET)

14. I hereby certify that the foregoing is true and correct.
Name (Printed/ Typed)

Kenneth J. Kundrik

Title

Operations Engineer

Signature

Ken Kundrik

Date

5/4/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

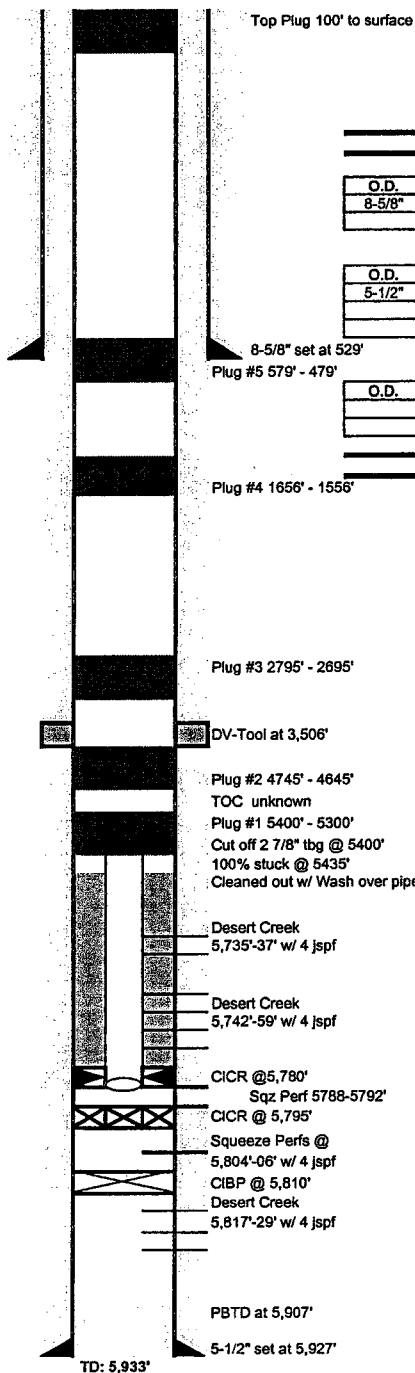
RECEIVED

MAY 07 2004

DIV. OF OIL, GAS & MINING

(Work Continuation)

- 10) Drilled 5432' to 5440'. Quit making hole POOH Mill worn out. Made up new tools and changed out swivel.
- 11) Drilled 5440' to 5465'. Quit making hole circulating iron up.
- 12) POOH lay down Wash Over Pipe. RIH with tubing lay down rods.
- 13) RU cementer Key Pressure Pumping Services
- 14) Set Plugs as follows:
 - a) Pumped 11 sxs. Cls "B" cmt Yield 1.18 Plug from 5400' to 5300' .
 - b) Perforated 4745' w/ 4 shots. Pressure up to 1000 psi could not get rate.
 - c) Pumped 11 sxs Cls "B" cmt. Yield 1.18 Plug from 4745' to 4645'.
 - c) Pumped 11 sxs Cls "B" cmt. Yield 1.18 Plug from 2795' to 2695'.
 - c) Pumped 11 sxs Cls "B" cmt. Yield 1.18 Plug from 1656' to 1556'.
 - c) Pumped 11 sxs Cls "B" cmt. Yield 1.18 Plug from 579' to 479'.
 - d) Pumped 15 sxs Cls "B" cmt Yield 1.18 Plug from 100' to surface.
- 15) Cut off well head 3 ft. below ground level and erect Dry Hole maker with Legal Location, Operator, API Number , and Well Name indicated.



WELL: Jack # 31-G COUNTY: San Juan / API #: 43-037-31709
 FIELD: Aneth STATE: UT SPUD DATE: 5-20-92
 FORMATION: Desert Creek LOCATION: SWNE, Sec. 31, T41S-R24E
 TD: 5,933' PBTD: 5,810' ELEVATION: GL= 4,924', KB= 4,937'

CASING RECORD

SURFACE CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	LT&C	Surface	529'	12	12-1/4"	370	Surface

PRODUCTION CASING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5,927'	142	7-7/8"	1st Stg=602	Unknown
								2nd Stg=937'	surface

TUBING

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
2-7/8"	6.5#	J-55	8 rd	Surface					

PERFORATION RECORD

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
06/07/92	5,817'	5,829'	4 jsfp	D. Creek	Isolated
06/07/92	5,742'	5,759'	4 jsfp	D. Creek	Open
06/07/92	5,735'	5,737'	4 jsfp	D. Creek	Open
11/17/97	5,804'	5,806'	4 jsfp	D. Creek	Squeezed

TREATMENT

<< See attached sheet for completion and workover history. >>

REMARKS

Tubing Detail 184 Jts. of 2-7/8", 6.5#/ft J-55 EUE 8rd Tbg. TAC @ 5,682' 2 Jts. of Tbg, A.A. SN @ 5,749' 4 ft. perf'd sub BPMA, EOT @ 5,786'	Rod Detail 87 - 7/8" Rods 2,175.00 ft. 143 - 3/4" Rods 3,575.00 ft. Total: 5,750.00 ft. Pump: 2-1/2" x 1-3/4" x 22' RHAC
---	---

Surface Location: 2,170' FNL - 1,390' FEL
 Lease #: NOG 8707-1231 / Navajo Tribal

MISCELLANEOUS

RIM Wt%:	
BHT:	
BHP:	
EST SITP:	
LOGS:	

CAPACITIES

Tubular Cap.		
	Bbl/ft	Ft3/ft
Tubing	0.00579	0.03250
Casing (15.5 #/ft)	0.02380	0.13360
Annular Cap.		
	Bbl/ft	Ft3/ft
Tbg x Csg (15.5 #/ft)	0.01580	0.08860
Csg x Open Hole	0.03090	0.17320

TUBULAR GOODS PERFORMANCE

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: KJK
 Date: 05/01/01
 Updated: 05/04/04

WELL: Jack # 31-G	COUNTY: San Juan / API #: 43-037-31709
FIELD: Aneth	STATE: UT SPUD DATE: 5-20-92
FORMATION: Desert Creek	LOCATION: SWNE, Sec. 31, T41S-R24E
TD: 5,933' PBTD: 5,810'	ELEVATION: GL= 4,924', KB= 4,937'

Date	Description
06/01/92	MIRU completion rig. Tested casing to 2,000 psi. Drilled out DV-tool @ 3,506'. Cleaned out to PBTD of 5,907' (FC). CBL showed evidence of micro-annulus. Perforated from 5,735'-37', 5,742'-59' & 5,817'-29'. FL dropped 100' after perforating. Well was flowing on TIH with PIP tool. Acidized all perforations with 3,100 gall. Of 28% HCL using 2 ft. spacing on the PIP tool. Acidized at 2 bpm and low pressures (vacuum to 500 psi). TOOH with PIP tool. TIH with RBP & Pkr. Set RBP @ 5,845' & packer @ 5,780'. Acidize the Lower interval; with 4,800 gall. Of 15% Gelled HCL acid @ 6 bpm & 2,650 psi (max). ISIP=1,400 psi, 2 min = vacuum. Swab tested at 318 bfpd with a 13% oilcut and a swabbing FL of 3,800' (rate after load recovery). Reset RBP @ 5,790', and packer at 5,730'. Acidize perms from 5,735'-59' at 7.5 bpm and 2,400 to 2,700 psi with 7,600 gall. Of gelled 15% HCL. Swab tested zone and it kicked off and flowed (100% oil). TOOH with RBP & packer. RIH and set a CIBP at 5,810'. TIH and set packer at 5,725'. Run two week PBU. BHP=1446 psi. Flow tested well, would not flow continually, put well on rod pump.
11/08/93	Pump change.
Feb. 1996	Shot FL @ 3,553', SN @ 5,768'.
05/28/96	MIRU workover rig. POOH with rods & pump. Release TAC, TOOH with tbq. Made bit & scraper run, tagged CIBP @ 5,810'. Acidized perms using a PIP tool on 1 ft spacing with 7-1/2% PAD acid + Xylene. 1.5 bpm @ 1,700 psi. Return well to production.
Aug. 1996	Shot FL @ 4,923'.
Feb. 1997	Well not pumping. TOOH with tubing, run bit and scraper. Pump hot FW + salt inhibitor. RTP.
05/01/97	Pump change.
Sep. 1997	Pump change.
Nov. 1997	POOH with pump & rods. TOOH with tbq. Ran GR/CCL correlation log. Perforate 5,804'-06' w/ 4 jspf (8 holes). TIH and set CICR @ 5,795'. Establish injection rate of 5 bpm @ 0 psi. Squeezed with 50 sx. Of Class "G". Max. squeeze pressure of 600 psi. Per SJM (who supervised job), never really obtained a squeeze. Returned well to production, no change in water production.
Aug. 1998	Pump change / swabbed well. Well was shut-in due to high SWD costs & low oil price.
March, 2004	Attempt to Sqz. to return to Production. Perf 5788'-5792' Set retainer 5780' Sqz. With 100 sxs. No pressure over Displace with 5 bbls. Water. Sqz. w/ 50 sxs Cls "B" & 2% CaCL2. unable to sting out of retainer. Cement in casing up to 5412'. Attempt to clean out with wash over pipe unable to make any hole tubing laying against casing.
04/19/04	Well P&A'd

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

NOG 8707-1231

6. If Indian, Allottee, or Tribe Name

NAVAJO NATION

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

JACK 31G

9. API Well No.

43-037-3170

10. Field and Pool, or Exploratory Area

Aneth

11. County or Parish, State

San Juan, UT

1. Type of Well



Oil Well



Gas Well



Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3a. Address

5 Inverness Drive East
Englewood, CO 80112

3b. Phone No. (include area code)

303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2170' FNL & 1390' FEL
SWNE Sec 31-T41S-R24E

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Acidize



Altering Casing



Casing Repair



Change Plans



Convert to Injection



Deepen



Fracture Treat



New Construction



Plug and abandon



Plug back



Production (Start/ Resume)



Reclamation



Recomplete



Temporarily Abandon



Water Disposal



Water Shut-off



Well Integrity



Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

This well was plugged and abandoned in April 2004. The location has been reclaimed and is ready for final inspection.

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

14. I hereby certify that the foregoing is true and correct. Name (Printed/ Typed)

Kenneth Kundrik

Title

A&D Manager

Signature

Kenneth Kundrik

Date

September 30, 2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)